```
MAL/6800 1.3F: 0000 SDDSDR1VERS
                                   *** SDOS I/O drivers for WaveMate Jupiter 11 (C) 1978 SDFTWARE DYNAMICS ***
01/14/83 11:39:33; Page 1; Form 0
                                   Jupiter II Hardware Configuration Definitions
IDJUPITER.ASM
 0000
                1: Listdefs equ 0
                                             ; don't list SDOS definitions
                2: ;
 003C
                3: memsize
                                 60
                                             ; K of memory
 8400
                4: code
                                 $8400
                                             ; top of user space
 0001
                6: VirtualFloopy equ 1
                                             ; Use Virtual (joke) floppy drive
                7: ;
 0002
                8: PerSci
                                             ; 1 dual persci
 0001
                                                set up for WM 256 byte format...
                9: WMformat equ
 0001
               10: IBMformat equ
                                                and IBM 3740 format :
               11: :
 0002
               12: DAMfloppy equ
                                             ; 1 dual DAM floppy drive
               13: :
                                                                                      cruspeed equ
 0001
               14: StorageDemon equ 1
                                             ; Standard Storage Demon
  0001
               15: 1M17710S equ
                                                 IMI 7710s
 0001
               16: UseDemonAsClock equ 1
                                             : Use Demon interface as clock
 0800
               18: DesiredPoolSize equ 512#4
                                             ; so poolsize is 3 sectors -> readahead happens
               19: :
 0000
               20: InBufSize:#ffc4 equ 0
                                             ; line printer doesn't need input buffer
  0000
               21: LineBufSize:$ffc4 equ 0
                                             ; line printer doesn't need line buffer
   for 7711
                                                3/3/85 patch
                       8701/E7
                                                 clude never to mulce
  9382 / 4A38
                       FIX SAVEGRALS N
                                                CLOCK: more accorate
                       fix wolkeset
 make D2: the
                                                9E35/ (628
                       8139/ 86CA
                                                       8639
  default dille
                                B7FF4C
  8EB1/ 9155
                                                3/22/85 patch LPT
                               B6FF41
                                                 for 10 second finant
 9286+5/9379
                               8612
                                                 on EPION
                               B7FF4D
                                                8078/0266
 90E4+5/ 0000
                               B7FF4E
                                                 809E/0266
                              CE1388
 fix BUILDMAPS
                              90
 8508 / DE068DEC
                               26FD
fix FORETORE
                               86EA
4E05/01
                        fix end recovery in
         PERFEL
                         fuppy drive 4/2/83
        86A5
                         87C4/36 EE2B
        67FF82
                                  A603E604
        40
         BBFF82
                                  FE9013
        408600
                                  6F3F.
         46 3880
                                  ME SEE 63F
```

Make retry course high 85841 30

FFFF82

TEREOS

8EE6/ A740 E741

3239

```
*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
MAL/6800 1.3F: 0000 SDOSDRIVERS
                              Jupiter II Hardware Configuration Definitions
01/14/83 11:39:33; Page 2; Form 1
IDJUPITER.ASM ...
             THIS I/O PACKAGE IS FOR A JUPITER II!
             3: JUPITERII EQU 1
 0001
                                             IF'S ON THIS SHOULD BE IF'S ON JUPITERII
 0001
             4: WAVEMATE EQU 1
             NAME SDOSDRIVERS
             9:
 0001
             10:
                      IFUND M6800
            11: M6800 EQU 1
 0001
 0000
             12: M6801 EQU
                             0
            13: M6809 EQU
                             0
 0000
                          0086M
            14:
                     FIN
            15:
            16: IF M6800!M6801
17: WITH LINCLUDE
18: FIN.
 0001
             19:
             20: *
                  BY SOFTWARE DYNAMICS
             21: *
             22: *
                    AND A CAST OF THOUSANDS!
             23: *
                                             /82 MMDD IN HEX FORMAT
 1231
             24: EDITDATE EQU $1231
             25: EDITYEAR EQU $1982
 1982
             26: *
             27: X
             29: # 1/0 PACKAGE STRUCTURE
                   The 1/O package is organized in the following fashion:
             30: *
             31: 1
             32: * Low addresses: !
             33: $
                  ! Read-only code,
                              ! tables, etc.
             34: *
             35: #
             36: 1
                             ! Interrupt poll
             37: *
             38: *
                              ! chains
             39: *
                                (readonly)
             40: #
             41: $
             42: $
             43: $
                              ! Working storage, !
             44: 1
                              ! DCBs, TCBs, etc. !
             45: $
             46: *
             47: $
             48: 1
                               ! Disk Buffer
                               ! Pool
             49: 1
             50: 1
                              ! I/O Driver
                               ! Reset code
             51: *
             52: $
                               ! (once-only)
             53: $
             54: $
             55: #
                              ! VT Drivers
             56: $
                              ! SDOS
             57: $
             58: $
                              1
```

```
MAL/6800 1.3F: 0000 SDDSDR1VERS
01/14/83 11:39:33; Page 3; Form 1
IOJUPITER.ÁSM
```

*** SDOS 1/O drivers for WaveMate Jupiter 11 (C) 1978 SOFTWARE DYNAMICS ***
Jupiter II Hardware Configuration Definitions

```
59: *
             To make this arrangement possible, each 1/0 package source is
60: *
61: *
             organized in the following way:
62: *
                   10xxxxx.DO
                                            is a file containing a configuration
                                             for machine xxxxx
A3: X
                                    is a file containing an I/O package "shell"
64: *
                   IOxxxxx.DO
45: ¥
                                            is a file containing ALL driver-related code
                    10yyyyy.ASM
                                             tables, etc. for the hardware device yyyyyy
66: $
67: X
             Each 1/O package shell uses conditional assembly switches to conditionally
4 :86
             INCLUDE TDyyyyy.ASM in a particular configuration. The IDyyyyy.ASM
69: *
             file is actually INCLUDED 4 times, once for each of the 4 areas of
70: *
71: 1
             the I/O package shown above. The following conditional switches
72: *
             are used by the driver source module to distinguish between areas:
                   IODR1VERBODY
                                            selects the read-only code portion
73: $
                                            selects the Interrupt poll chain portion
74: 1
                    10DR IVERPOLL
75: *
                                            selects read/write storage of driver
                    10DR IVERRAM
                                            selects the once-only I/O driver initializing code
76: $
                    10DRIVERINIT
77: $
78: *
             Note: the driver source module should define all equates and (DCB)
             table displacements when the conditional switch IODRIVERBODY is enabled.
79: *
80:
81: 1
82: 1
             A Typical shell has the following source form:
83: 1
94: ¥
                   SET DEFAULTS
85: 1
                    1FUND
                                            XXXX
                    IFUND
86: 1
                                            Y Y Y Y
87: $
                    . . .
88: $
                   BUILD READ-ONLY CODE
89: 1
              IODRIVERBODY
                                            SET 1
                                            SET 0
90: $
              IDDR1VERPOLL
                                            SET 0
91: 1
              10DR1VERRAM
92: $
              10DRIVERINIT
                                            SET 0
93: 1
                    1F
                                            XXXX
 94: 1
                    INCLUDE
                                            10xxxx.ASM
95: 3
                    FIN
                    1F
96: $
                                            YYYY
97: 1
                    INCLUDE
                                            IDyyyy.ASM
 98: #
                    FIN
99: #
100: $
              PATCHSPACE
                                            RTP zzzz
101: $
                    SW1
102: 1
              ***** Build Interrupt Poll Chains
              IODRIVERBODY
                                            SET 0
103: 2
104: 1
              IODRIVERPOLL
                                            SET 1
                                            XXXX Note: order of poll routines may be different than bodies
105: *
                    IF
                    INCLUDE
                                             IOxxxx.ASM
106: $
107: $
                    FIN
108: #
                    IF
                                             уууу
109: 1
                    INCLUDE
                                            IDvyyy.ASH
110: #
                    FIN
111: $
112: *
              **** Build Working Storage
                                            SET 0
113: $
              IODRIVERPOLL
```

MAL/4800 1.3F: 0000 SDDSDRIVERS 01/14/83 11:39:33; Page 4; Form 1 IDJUPITER.ASM *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
Jupiter II Hardware Configuration Definitions

114:	* IODR	VERRAM	SET 1
115:	‡	IF	XXXX
114:	*	INCLUDE	IOxxxx.ASM
117:	‡	FIN	
118:	‡	IF	XXXX
119:	*	IF	уууу
120:	‡	INCLUDE	IOyyyy.ASM
121:	‡	FIN	
122:	*	111	
123:	* ****	# Build Driver Reset rou	tines
124:	* IODR	(VERRAM	SET 0
125:	* IODR	IVERINIT	SET 1
126:	*	IF	XXXX .
127:	*	INCLUDE	IOxxxx.ASM
128:	†	FIN	
129:	*	IF	уууу
130:	‡	INCLUDE	IOyyyy.ASM
131:	*	FIN	
132:	‡	***	
133:	* ****	∤ Finish out disk buffer	pool, etc
134:		***	v *
135:	*	END	

MAL/6800 1.3F: 0000 SDDSDRIVERS 01/14/83 11:39:33; Page 5; Form 1 IDJUPITER.ASM *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
Jupiter II Hardware Configuration Definitions

INITIALIZE CONSOLE DEVICE VECTOR
PUT A CHARACTER TO CONSOLE VECTOR
GET A CHARACTER TO CONSOLE VECTOR
TEST FOR ARRIVAL OF CHARACTER FROM CONSOLE

INIT DEFAULT DEVICE (FOR LPT)

PUT A CHARACTER TO DEFAULT DEVICE VECTOR

WWW1 2 1 KIN1 11 GIT				
	137:	‡	,	
FC03	138:	INICV	EQU	\$FC03
FC06	139:	PUTCV	EQU	\$FC06
FC09	140:	GETCV	EQU	\$FC09
FCOC	141:	TESTCV	EQU	*FCOC
FC12	142:	INIDV	EØU	\$FC12
FC15 -	143:	PUTDV	EQU	\$FC15
	144:			
OOFE	145:	SYSPG	EQU	\$FE
OOFD	146:	SYSIIRQ	EQU	\$FD
	147:			
	148:			

*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
I/O PACKAGE DEFAULT SWITCHES MAL/6800 1.3F: 0000 SDOSDRIVERS 01/14/83 11:39:33; Page 6; Form 1 IOJUFITER. ASM 0001 150: OUTASPACE EQU 1 ; USE TRIMMED DEF FILES TO SAVE SYMBOL TABLE SPACE 151: 0001 152: IFUND SDOSMT 0000 153: SDOSMT EQU 0 : DEFAULT IS "NOT SDOS/NT" 154: FIN 155: 0000 156: IF SDOSMT 169: FIN SDOSMT 0000 170: IFUND MEMSIZE 172: FIN MEMSIZE 173: 174: IFUND DESIREDPOOLSIZE 0000 176: FIN 177: 0001 178: IFUND NIOCHANNELS 0000 179: SDOSHT 181: ELSE 0008 182: NIOCHANNELS EQU 183: FIN 184: FIN NIOCHANNELS 185: 186: * 0400 187: K EQU 1024 # BYTES PER "K" OF MEMORY 198: * 0001 189: IF M6800!M6801 0000 190: IFUND CODE 196: FIN CODE 197: * 0001 198: IFUND SDOS **BE00** 199: SDOS EQU MEMSIZE*K-\$3200 200: FIN SDOS 0001 201: IFUND VTDRIVER A600 202: VTDRIVER EQU SDOS-\$1800 203: FIN 0001 204: ELSE (M6809) 222: FIN 223: * 224: 0001 IFUND DRIVERBASE 0001 225: IF CODE((SDOS 8400 226: DRIVERBASE - EQU CODE 0002 227: ELSE 229: FIN CODECCODE 230: FIN DRIVERBASE 231: 0001 232: IFUND REALTIMECLOCK "THERE EXISTS A REAL PIECE OF CLOCK HARDWARE" 0000 233: IFUND STORAGEDEMON 237: ELSE 0001 238: IFUND USECONSOLEACIAASCLOCK 0000 239: USECONSOLEACIAASCLOCK **EQU &STORAGEDEMON** 240: FIN USECONSOLEACIAASCLOCK 241: FIN STORAGEDEMON 242: REALTIMECLOCK EQU 0001 **&USECONSOLEACIAASCLOCK** 243: FIN REALTIMECLOCK 244: 003C 245: TICKSPERSECOND EQU 60

MAL/4800 1.3F: 0000 SDOSDRIVERS *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** 01/14/83 11:39:33; Page 7; Form 1 I/O PACKAGE DEFAULT SWITCHES IDJUPITER.ASM 0001 246: IFUND CLOCK 0001 247: CLOCK EQU 1 248: FIN 0001 249: IF CLOCK 0001 250: IFUND LISTCLOCK 251: LISTCLOCK EQU 0001 1 252: FIN 253: FIN 254: 255: IFUND BLACKHOLE 0001 0000 254: BLACKHOLE EQU 0 257: FIN 0000 258: IF BLACKHOLE 262: FIN 263: 264: IFUND SDLP 0001 0000 265: SDLP EQU Ü 266: FIN 0000 267: IF SDLP 271: FIN 272: 0000 273: IFUND VIRTUALFLOPPY 275: FIN VIRTUALFLOPPY 0001 276: 1F VIRTUALFLOPPY 0001 277: IFUND LIST. VIRTUALFLOPPY 0001 278: LIST.VIRTUALFLOPPY EQU 1 279: FIN LISTVIRTUALFLOPPY 0000 280: IFUND PERSCI 282: FIN PERSCI 0000 283: IFUND DAMFLOPPY 285: FIN DAMFLOPPY 0002 286: IF PERSCI 287: IFUND WMFORMAT 0000 289: FIN WMFORMAT 0000 290: IFUND IBMFORMAT 292: FIN IBMFORMAT 293: FIN PERSCI 294: FIN VIRTUALFLOPPY

0001

0000

0000

0001

0000

0000

0000

0001

0001

0001

295:

297:

298:

305:

306:

308:

309:

320:

321: 322:

324:

325:

326:

328:

294: WMPERSCI EQU

307: WMDAMFLOPPY

IFUND WMPERSCI

WMPERSCI

WMPERSCI

WMDANFLOPPY

WMDAMFLOPPY

WMDANFLOPPY

STORAGEDEMON

IFUND LISTSTORAGEDEMON

IFUND STORAGEDEMON

0

EQU 1

IFUND WMDAMFLOPPY

EQU

0

FIN

FIN

FIN

IF

FIN

FIN

IF

FIN

327: LISTSTORAGEDEMON

IF

IÓJUPITER.ASM

329: FIN

330:

0000 IFUND LISTDEFS 331:

> 333: FIN

0001 334: IOPKDEFS EQU 1 MAKE SURE WE GET 1/O PACKAGE DEFINITIONS

MAL/6800 1.3F: 04D0 SDOSDRIVERS 01/14/83 11:39:33; Page 9; Form 1

*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
Virtual Terminal Driver definitions

IOJUPITER.ASM	344: \$		
	345: \$	SDOS-TO-IOPACKAGE COMMI	UNICATION REGION
	346: 1		· · · · · · · · · · · · · · · · · · ·
BEO1	347:	ORG SDOS+1	
,	348: ****	FCB \$10	SDOS VERSION NUMBER
BE01 0000	349:	FDB 0	LAST ERROR ENCOUNTERED
BE03 BEB1	350:	FDB CNFGTABLE	TELL SDOS WHERE ALL THE GOODIES ARE
BE05 0000	351:	FDB O	SERIAL NUMBER
BE07 0000	352:	FDB 0	IOBLOCKPTR
8E09 0000	353:	FDB 0	IOCB POINTER (FOR FILE-TYPE DEVICE DRIVERS)
BEOB 000000	354:	FCB 0,0,0	SET CLOCK TO "MIDNITE"
BEOE OO	355:	FCB 0	DAY, LET COMMAND INTERPRETER KNOW
BEOF OO	356:	FCB 0	MONTH, THAT THE TIME HASN'T BEEN SET
BE10 82	357:	FCB EDITYEAR&FF	YEAR
1,	358: *		
8400	359:	ORG DRIVERBASE	
8400 7E8400	360: SYSCALL	IO JMP	SYSCALLIO SDOS SETS JMP ADDR TO ITS ENTRY POINT
	361:		
8403 1231	362:	FDB EDITDATE	RECORD I/O PACKAGE DATE IN OBJECT FILE
8405 1982	363:	FDB EDITYEAR	•
	364:		
	365: *	•	
	366: ****	READ ONLY CODE SECTION	,
0001	367: IODRIVE	RBODY SET	1
0000	368: IODRIVE	RPOLL SET	0
0000	369: IODRIVE	RRAM SET	0 '
0000	370: IDDRIVE	RINIT SET	0
	371:		
	372; *		
0000	373: NEXTTCB	SET 0	END OF TEB CHAIN
0000	374: NEXTTIM	EOUT SET	0
0000	375: NEXTDISI	(DCB SET	, 0
0000	376: NEXTDEV	ICEDCB SET	0
0000	377: NTIMEOU	TS SET	0
0000	378: NDISKDC	BS SET	0
8E15	379: INTERRU	PTTARGET	SET SDOS+SDOS:RTI ASSUME CONVENTIONAL INTERRUPT SCH

****	3; Pag: 301:	e 10; Form 1	INTE	SDOS 1 RFACE			for	WaveMate	Jupite	er II	(C)	1978	SOFTWARE	DYNAMICS	***
IDJUPITER.ASM 0001	301:			RFACE	TO ID	В									
0001		IF	W/OAA												
*		IF	MIDAA						*						
0107	TOO. B		0086M		,				,						
1770	285: N	EBUGSYSCALLHAN	IDLER												
8407 34	383:	DES					MAKE	SPACE FO	RX				1		
8408 34	384:	DES					MAKE	ROOM FOR	INDEX	REGIS	TER				
8409 34	385:	DES					MAKE	ROOM FOR	CONTEN	ITS OF	(A)				
840A 34	386:	DES					SAVE	ACCB							
840B 07	387:	TPA			,					,					
840C 36	388:	PSHA-					SAVE	CC BITS							
840D BD8EC4	387:	JSR	INTDISAB	LE			TURN	OFF INTE	RÄUPTS						
8410	390: D	EBUGINTERRUPT	; ^D: C0	INTEXT	BLOCK	(IS C	OT NC	P OF STAC	K .						
8410 FEFFFC	391:	LDX	\$FFFC				; N	11 VECTOR							
8413 6E00	392:	JMP	0, X												
0001	393:	ELSE	(M6809)												
	399:	FIN	M6800												
0001	400:	IF	CLOCK												
	401:	INCLU	DE .	1			IOCL	OCK.ASM							
0001	i:		IF	1	ODRIVE	RBODY	1		•						

.

				or WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
)1/14/83 11:39 IOCLOCK.ASM	:33; Page 11; Form 1	*** CL	OCK: DRIVER ***	ч.
3415 842F	3: CLOCKDRIVER	FDB	CLOCKOPEN	
9417 842F	4:	FDB	CLOCKCLOSE	
8419 848D	5:	FDB	CLOCKREADA	
841B 8EDB	6:	FDB	ILLDEVICEOP	WRITEA IS A NO-NO
841D 8469	7:	FDB	CLOCKREADB	
841F 8448.	8:	FDB	CLOCKWRITEB	
8421 8EDB	9:	FDB	ILLDEVICEOP	YOU UPDATE THE CLOCK, NOT REBUILD IT (CREATE)
8423 8EDB	10:	FDB	ILLDEVICEOP	RENAME IT TO WHAT? CLOCK-RADIO; ???
3425 8EDB	11:	FDB	ILLDEVICEOP	YOU CAN'T GET RID OF THE CLOCK, NEITHER
9427 8EDB	12:	FDB	ILLDEVICEOP	NO CONTROL FUNCTIONS
3429 8434	13:	FDB	CLOCKSTATUS	SAY "I'M A CLOCK, TICK-TOCK"
8428 9E35	14:	FDB	CLOCKRESET	
842D .842F	15:	FDB	CLOCKPFRESTART	WHO UNPLUGGED ME???
	16: \$, ,	,	
842F	17: CLOCKCLOSE	EQU	1	WHAT AM I SUPPOSED TO DO, PUT THE CLOCK AWAY??
842F	18: CLOCKOPEN	EQU	*	HOW ABOUT LOOKING AT YOUR \$9 TI CHEAPIE, MAC!
842F	19: CLOCKPFRESTART	EØN	‡	AM I SUPPOSED TO KEEP TIME WITH NO POWER???
B42F 0C39	20:	OKRTS		TOUGH!
	21:			
	22: *			
3431 7E8EDB	23: CLOCKSPRUNG	JMP	ILLDEVICEOP	
	24:			•
3434 8104	25: CLOCKSTATUS	CMPA	#SC:GETT.YPE	
8436 26F9	26:	BNE	CLOCKSPRUNG	
3438 FEBE07	27:	LDX	SDOS+SDOS: IOBLO	
B43B BDBE36	28:	JSR		RDLEN HAS HE BOT A BYTE SPACE
143E 0001	29:	FDB	1	
3440 EE0A	30:	LDX		GET THE BUFFER POINTER
3442 860B	31:	LDAA		I'M ALIVE AND TICKING (HOPEFULLY!)
8444 A700	32:	STAA	DVTYP:TYPE,X	•
3446 OC39	33:	OKRTS		
MAG DEBETS	34: 75. 010000001TCD	105	edun anne auces	MOLEN DAG HE POT / DVTEPS
3448 BDRE39	35: CLOCKWRITEB	JSR		WRLEN HAS HE GOT & BYTES?
344B 0006	36:	FDB	6	WOITE DUTTED DOINTED
344D EE04	37:	FDX	•	WRITE BUFFER POINTER
844F C606	38: 39: CLOCKWB1	LDAB	#6 .	,
1451 A600		LDAA INX	0, X	
1453 VB 1454 36	40:	PSHA	,	
434 36 455 5A	41: 42:	DECB		
1456 26F9	43:	BNE	CLOCKWB1	
3458 01	44:	NOP -	CCOCKMDI	DON'T WANT TO UPDATE THE CLOCK WHILE SETTING IT
1459 OF	45:	SEI	•	NOW I WHILE TO DEPUTE THE DEPUT WHILE DESIGN IT
1437 OF 145A CEBEOO	46:	LDX	#SDOS	
143N CEBEOU 145D C606	47:	LDAB	#5003	•
145F 32	48: CLOCKWB2	PULA	a u	
1460 A710	49:	STAA	SDOS:CLOCK+5,X	
3462 09	50:	DEX	mander stemmer, at the	
1463 5A	51:	DECB		
1464 26F9	52:	BNE	CLOCKWB2	•
466 OE	53:	CLI		
1467 OC39	54:	OKRTS		AND WE'S DONE!
	55: *	लग्द ६०० के 7 तेली		
	56: \$		•	
	57: #	,		

```
MAL/6800 1.3F: 8469 SDDSDRIVERS
                                          *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
01/14/83 11:39:33; Page 12; Form 1
                                         *** CLOCK: DRIVER ***
IOCLOCK.ASM
8469 BDBE36
                 58: CLOCKREADB
                                          JSR
                                                  SDOS+SDOS: CHECKRDLEN
8460 0006
                  59:
                                          FDB
                                                                   HE BETTER HAVE & BYTES AT LEAST
846E 01
                 60:
                                          NOP
                                                                    DON'T WANT CLOCK UPDATED WHILE READING IT
846F OF
                                          SEI
                  61:
8470 CEBE00
                 62:
                                          LDX
                                                  #SDOS
8473 C606
                  63:
                                          LDAB
                                                  #6
8475 A60B
                 64: CLOCKRB1
                                          LDAA
                                                  SDOS: CLOCK, X
8477 08
                 65:
                                          INX
8478 36
                 66:
                                          PSHA
                                          DECB
8479 SA
                 67:
847A 26F9
                 68:
                                          BNE
                                                  CLOCKRB1
847C 0E
                 69:
                                          CLI
                 70:
                                          LDX
                                                  SDOS+SDOS: IOBLOCKPTR
847D FEBE07
8480 EE0A
                 71:
                                          LDX
                                                  SCBLK: RDBUF, X
8482 C606
                 72:
                                          LDAB
                                                  #6
8484 32
                 73: CLOCKRB2
                                          PULA
8485 A705
                 74:
                                          STAA
                                                  5.X
8487 09
                 75:
                                          DEX
8488 5A
                 76:
                                          DECB
                                          BNE
                                                  CLOCKRB2
8489 26F9
                 77:
848B 0C39 -
                 78:
                                          OKRTS
                 79: $
                 80: *
                 81: *
                 82: CLOCKREADA
                                                  SOOS+SDOS: CHECKROLEN
848D BDBE36
                                          JSR
8490 0011
                 83:
                                          FDB
                                                                   ENOUGH FOR HH: MM: SS MM/DD/YY
                                                  17
8492 8D25
                 84:
                                          BSR
                                                  CLOCKGETTD
                                                                   GET TIME. DATE FROM SDOS
8494 8D41
                 85:
                                          BSR
                                                  CLOCKDATE
                                                                   FORMAT DATE
8496 BD72
                 86:
                                          BSR
                                                  CLOCKTIME
                                                                   FORMAT TIME
                 87:
                                          LDX
                                                  SDOS+SDOS: IOBLOCKPTR
8498 FEBE07
849B 8611
                 88:
                                          LDAA
                                                  #17
                 89:
                                          STAA
                                                  SCBLK: RPLEN+1. X
849D A709
849F EE0A
                 90:
                                          LDX
                                                  SCBLK: RDBUF, X
84A1 DF00
                 91:
                                          STX
                                                  TEMPX
84A3 CE9002
                 92:
                                          LDX
                                                  #TIME$
84A6 E600
                  93: CLOCKRA1.
                                          LDAB
                                                  0, X
84A8 08
                 94:
                                          INX
                 95:
                                          STX
                                                  TEMPX+2
84A9 DF02
84AB DE00
                 96:
                                          LDX
                                                  TEMPX
                 97:
                                          STAB
84AD E700
                                                  0, X
84AF 08
                 98:
                                          INX
8480 DF00
                 99:
                                          STX
                                                  TEMPX
                                                  TEMPX+2
84B2 DE02
                100:
                                          LDX
84B4 4A
                 101:
                                          DECA
                102:
                                          BNE
                                                  CLOCKRA1
84B5 26EF
84B7 0C39
                 103:
                                          OKRTS
                104: $
                 105: $
                106: *
  8489
                 107: CLOCKGETTO
8489 01
                108:
                                          NOP
848A OF
                 109:
                                          SEI
84BB CEBEOO
                110:
                                          LDX
                                                  #SDOS
                                          LDAB
                                                  #6
84BE C606
                 111:
84C0 A60B
                112: CLOCKGETTD1
                                          LDAA
                                                  SDOS:CLOCK, X
```

```
MAL/4800 1.3F: 84C2 SDOSDRIVERS
                                         *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
01/14/83 11:39:33; Page 13; Form 1
                                         *** CLOCK: DRIVER ***
IOCLOCK. ASM
8402 08
                113:
                                         INX
84C3 36
                114:
                                          PSHA
84C4 5A
                115:
                                         DECB
84C5 26F9
                116:
                                          BNE
                                                  CLOCKGETTD1
84C7 0E
                117:
                                         CLI
84C8 CE8FF4
                118:
                                         LDX
                                                  #CLOCKBUFFER
84CB C606
                119:
                                         LDAB
                                                  #6
                120: CLOCKGETTD2
84CD 32
                                         PULA
84CE A705
                121:
                                         STAA
                                                  5, X
84D0 09
                122:
                                          DEX
84D1 5A
                123:
                                         DECR
84D2 26F9
                124:
                                         BNE
                                                  CLOCKSETTD2
84D4 39
                125:
                                         RTS
                126: *
                127: *
                128: $
                129: DATE
84D5 8DE2
                                         BSR
                                                  CLOCKGETTD
84D7 B68FF8
                130: CLOCKDATE
                                         LDAA
                                                  MONTH
84DA 8D22
                131:
                                         BSR
                                                  BCDTOASC
84DC B7900B
                132:
                                         STAA
                                                  DATES: MONTH
84DF F7900C
                133:
                                         STAB
                                                  DATES: MONTH+1
84E2 B68FF7
                 134:
                                          LDAA
                                                  DAY
84E5 8D17
                135:
                                         BSR
                                                  BCDTOASC
84E7 B7900E
                136:
                                          STAA
                                                  DATE: DAY
84EA F7900F
                137:
                                         STAB
                                                  DATE4: DAY+1
84ED B68FF9
                138:
                                         LDAA
                                                  YEAR
84F0 8D0C
                139:
                                         BSR
                                                  BCDTOASC
84F2 B79011
                140:
                                         STAA
                                                  DATES: YEAR
84F5 F79012
                141:
                                         STAB
                                                  DATES: YEAR+1
84F8 CE900B
                142:
                                         LDX
                                                  #DATE$
84FB 8608
                143:
                                         LDAA
84FD 39
                144:
                                         RTS
                145: $
84FE 16
                146: BCDTOASC
                                         TAB
84FF C40F
                147:
                                         ANDB
                                                  #$F
8501 CB30
                148:
                                         ADDB
                                                  #'0
8503 44
                149:
                                         LSRA
                150:
                                         LSRA
8504 44
8505 44
                151:
                                         LSRA
                152:
                                         LSRA
8506 44
8507 8830
                153:
                                         ADDA
8509 39
                154:
                                         RTS
                155: *
                156: #
850A BD852E
                157: CLOCKTIME
                                         JSR
                                                  DIVIDEBY40
                                                                  NOW DIVIDEND HAS SECONDS
850D CE9008
                                         LDX
                158:
                                                  #TIME$: SECONDS
8510 8D10
                159:
                                         BSR
                                                  CLOCKMAKEXX
8512 CE9005
                160:
                                         LDX
                                                  #TIME $: MINUTES
8515 8D0B
                161:
                                         BSR
                                                  CLOCKMAKEXX
8517 CE9002
                162:
                                         LDX
                                                  #TIME$:HOURS
851A 8D06
                163:
                                         BSR
                                                  CLOCKMAKEXX
851C CE9002
                164:
                                         LDX
                                                  #TIME$
851F 8608
                165:
                                         LDAA
                                                  #8
                166:
8521 39
                                         RTS
                167: $
```

```
*** SDOS 1/O drivers for WaveMate Jupiter II (C) 1978 SDFTWARE DYNAMICS ***
MAL/6800 1.3F: 8522 SDOSDRIVERS
                                         *** CLOCK: DRIVER ***
01/14/83 11:39:33; Page 14; Form 1
IOCLOCK.ASM
                                                 DIVIDEBY60
8522 BD852E
                168: CLOCKMAKEXX
                                         JSR
                169:
                                         ADDA
                                                 #"0
8525 8830
                                                 #"0
8527 CB30
                170:
                                         ADDB
                171:
                                         STAB
                                                 0, X
8529 E700
                172:
                                         STAA
                                                 1, X
852B A701
                173:
                                         RTS
852D 39
                174: *
                                         DIVIDE BY 60 -- DIVIDE 3 BYTE "DIV60DIVIDEND" BY 60
                175: $
                176: #
                                                 DIVIDEND:=DIVIDEND/60
                                                 (A):=REMAINDER MOD 10
                177: *
                                                 (B) := INT (REMAINDER/10)
                178: *
                179: DIVIDEBY60
                                         EQU
  852E
852E C619
                180:
                                         LDAB
                                                 #3#8+1
                                                                  NUMBER OF BITS
8530 4F
                181:
                                         CLRA
                182: DIVIDE60L
                                         EQU
                                                 *
  8531
8531 49
                183:
                                         ROLA
                184:
                                         CMPA
                                                 #40
8532 8130
                                         BCS
                                                 DIVIDE60L2
8534 2504
                185:
8536 B03C
                186:
                                         SUBA
                                                 #60
8538 OD
                187:
                                         SEC
                                                                  SKIP THE NEXT INSTRUCTION
                188:
                                         $85
8539 85
                189: DIVIDE60L2
                                         CLC
853A OC
                                         ROL
                                                 DIVAODIVIDEND+2
853B 798FF4
                190:
853E 798FF5
                191:
                                         ROL
                                                 DIV60DIVIDEND+1
                                         ROL
                                                 DIV60DIVIDEND+0
8541 798FF4
                192:
                                         DECB
8544 5A
                193:
                                         BNE
                                                 DIVIDEAOL
                194:
8545 26EA
                                                 #-1
8547 C6FF
                195:
                                         LDAB
8549 5C
                196: DIVIDEAOL3
                                         INCB
                197:
                                         SUBA
                                                 #10
854A 800A
                                                 DIVIDEAOL3
854C 24FB
                198:
                                         BCC
                199:
                                                 #10
854E 880A
                                         ADDA
                200:
                                         RTS
B550 39
                                         FIN
                201:
                                                 IODRIVERBODY
 0000
                202:
                                         ΙF
                                                 IDDRIVERRAM
                228:
                                         FIN
                                                 IODRIVERRAM
                229:
                230:
                402:
                               FIN
                 403:
                               IF
                                     BLACKHOLE
  0000
                               FIN
                405:
                                    BLACKHOLE
                               IF
                                     SDLP
  0000
                 406:
                408:
                               FIN
                                     SDLP
                                     VIRTUALFLOPPY
  0001
                 409:
                               IF
                 410:
                               INCLUDE
                                                              IOVFD. ASM
  0001
                   1:
                                    IF
                                             IODRIVERBODY
                   2: $
                                    PHYSICAL DISK DRIVERS STORAGE "DEFS"
                   3:
                                    SET
  8551
                   4: ::
  0042
                   5:
                                    ORG
                                             DSKINFO: SIZE
                   6:
                                    TACKS ON TO BOTTOM OF DISK INFO TABLE
                   7: X
                                                               O IS READ, <>O IS WRITE
0042 0001
                                    RMB
                   9: FDREADWRITE
                                             1
                                                               JMP instruction
 0043 0001
                  10: FDDSTATEJ
                                    RMB
                                             1
```

11/14/83 11:39:33; Page 15; Form 1				drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
0044 0002 11: FDDSTATE RMB 2 address for JMP instruction 0046 0001 12: FDSEEKRETRY RMB I NUMBER DF RE-SEEKS 0047 0001 13: FDRETRY RMB 1 READ/WRITE RETRY COUNT 0048 0001 14: FDDRIVE RMB 1 DRIVE NUMBER TO USE 0049 0001 15: FDCYL RMB 1 What track we're on (-1 if lost) 0040 0001 16: FDSECTOR RMB 1 BINME THIS ONE 0040 0001 17: FDCOMPLEMENT RMB 1 COMPLEMENT DATA 0040 0001 18: FDFIRSTSEC RMB 1 FIRST SECTOR ON TRACK 0040 0002 19: FDHEADCHAIN RMB 2 head of shared-head queue 0047 0002 20: FDMEYTCHAIN RMB 2 next on shared-head queue 0051 0002 21: FDCCB RMB 2 address of controller table 0053 0002 22: FDMAPALE RMB 2 current map algorithm 0055 0001 23: FDKIMODNSPT RMB 1 SPIRALING CONSTANT MOD NSPT	01/14/83 11:3	9:33; Page 15; Form 1	*** CLOCK: DR	IVER ***
0046 0001	IOVFD.ASM	,	,	
0047 0001 13: FDRETRY RMB 1 READ/WRITE RETRY COUNT 0048 0001 14: FDDRIVE RMB 1 DRIVE NUMBER TO USE 0049 0001 15: FDCYL RMB 1 What track we're on (-1 if lost) 0040 0001 16: FDSECTOR RMB 1 GIMME THIS ONE 0040 0001 17: FDCDMPLEMENT RMB 1 COMPLEMENT DATA 0040 0002 19: FDHEADCHAIN RMB 2 head of shared-head queue 0047 0002 20: FDNEXTCHAIN RMB 2 next on shared-head queue 0051 0002 21: FDCCB RMB 2 address of controller table 0053 0002 22: FDMAPALG RMB 2 current map algorithm 0055 0001 23: FDKIMODNSPT RMB 1 SPIRALING CONSTANT MOD NSPT 0056 0001 24: FDK2MODNSPT RMB 1 2*SC MOD NSPT 0058 0001 26: FDK8MODNSPT RMB 1 4*SC MOD NSPT 0058 0001 26: FDK32MODNSPT RMB 1 16*SC MOD NSPT <td< td=""><td>0044 0002</td><td>11: FDDSTATE RMB</td><td></td><td>address for JMP instruction</td></td<>	0044 0002	11: FDDSTATE RMB		address for JMP instruction
0048 0001 14: FDDRIVE RMB 1 DRIVE NUMBER TO USE 0049 0001 15: FDCYL RMB 1 what track we're on (-1 if lost) 004A 0001 16: FDSECTOR RMB 1 GIMME THIS ONE 004B 0001 17: FDCDMPLEMENT RMB 1 COMPLEMENT DATA 004C 0001 18: FDFIRSTSEC RMB 1 FIRST SECTOR ON TRACK 004D 0002 19: FDHEADCHAIN RMB 2 head of shared-head queue 004F 0002 20: FDNEXTCHAIN RMB 2 next on shared-head queue 0051 0002 21: FDCCB RMB 2 address of controller table 0053 0002 22: FDMAPALG RMB 2 current map algorithm 0055 0001 23: FDK1MODNSPT RMB 1 SPIRALING CONSTANT MOD NSPT 0056 0001 24: FDK2MODNSPT RMB 1 2*SC MOD NSPT 0058 0001 26: FDK8MODNSPT RMB 1 4*SC MOD NSPT 0058 0001 27: FDK16MODNSPT RMB 1 16*SC MOD NSPT <	0046 0001	12: FDSEEKRETRY RMB	I	NUMBER OF RE-SEEKS
0049 0001 15: FDCYL RMB 1 What track we're on (-1 if lost) 004A 0001 16: FDSECTOR RMB 1 SIMME THIS ONE 004B 0001 17: FDCOMPLEMENT RMB 1 COMPLEMENT DATA 004C 0001 18: FDFIRSTSEC RMB 1 FIRST SECTOR ON TRACK 004D 0002 19: FDHEADCHAIN RMB 2 head of shared-head queue 004F 0002 20: FDNEXTCHAIN RMB 2 next on shared-head queue 0051 0002 21: FDCCB RMB 2 address of controller table 0053 0002 22: FDMAPALG RMB 2 current map algorithm 0055 0001 23: FDKIMODNSPT RMB 1 SPIRALING CONSTANT MOD NSPT 0056 0001 24: FDK2MODNSPT RMB 1 2*SC MOD NSPT 0057 0001 25: FDK4MODNSPT RMB 1 4*SC MOD NSPT 0058 0001 26: FDK8MODNSPT RMB 1 16*SC MOD NSPT 0059 0001 27: FDK16MODNSPT RMB 1 16*SC MOD NSPT 0050 0001 28: FDK32MODNSPT RMB 1 32*SC MOD NSPT 0050 0001 28: FDK32MODNSPT RMB 1 32*SC MOD NSPT 0050 0001 29: FDK32MODNSPT RMB 1 32*SC MOD NSPT 0050 0001 29: FDK32MODNSPT RMB 1 32*SC MOD NSPT 0050 0001 29: FDK32MODNSPT RMB 1 32*SC MOD NSPT 0050 0001 29: FDK32MODNSPT RMB 1 32*SC MOD NSPT 0050 0001 29: FDK32MODNSPT RMB 1 MAP FOR MAPPING 0050 0001 30: ; virtual floppy dcb allocates room needed for FDMAP	0047 0001	13: FDRETRY RMB	i	READ/WRITE RETRY COUNT
004A 0001 16: FDSECTOR RMB 1 COMPLEMENT DATA 004C 0001 17: FDCOMPLEMENT RMB 1 COMPLEMENT DATA 004C 0001 18: FDFIRSTSEC RMB 1 FIRST SECTOR ON TRACK 004D 0002 19: FDHEADCHAIN RMB 2 head of shared-head queue 004F 0002 20: FDNEXTCHAIN RMB 2 next on shared-head queue 005I 0002 21: FDCCB RMB 2 address of controller table 0053 0002 22: FDMAPALG RMB 2 current map algorithm 0055 0001 23: FDKIMODNSPT RMB 1 SPIRALING CONSTANT MOD NSPT 0056 0001 24: FDKZMODNSPT RMB 1 21SC MOD NSPT 0057 0001 25: FDKAMODNSPT RMB 1 41SC MOD NSPT 0058 0001 26: FDKSMODNSPT RMB 1 B\$SC MOD NSPT 0059 0001 27: FDK16MODNSPT RMB 1 164SC MOD NSPT 0050 0001 28: FDK3ZMODNSPT RMB 1 321SC MOD NSPT 0050 0001 28: FDK3ZMODNSPT RMB 1 321SC MOD NSPT 0050 0001 27: FDK16MODNSPT RMB 1 321SC MOD NSPT 0050 0001 27: FDK16MODNSPT RMB 1 321SC MOD NSPT 0050 0001 27: FDK16MODNSPT RMB 1 321SC MOD NSPT 0050 0001 28: FDK3ZMODNSPT RMB 1 321SC MOD NSPT 0050 0001 29: FDMAP EQU 1 MAP FDR MAPPING 0050 0001 30: ; virtual floppy dcb allocates room needed for FDMAP	0048 0001	14: FDDRIVE RMB	i	DRIVE NUMBER TO USE
004B 0001 17: FDCOMPLEMENT RMB 1 COMPLEMENT DATA 004C 0001 18: FDFIRSTSEC RMB 1 FIRST SECTOR ON TRACK 004D 0002 19: FDHEADCHAIN RMB 2 head of shared-head queue 004F 0002 20: FDNEXTCHAIN RMB 2 next on shared-head queue 0051 0002 21: FDCCB RMB 2 address of controller table 0053 0002 22: FDMAPALB RMB 2 current map algorithm 0055 0001 23: FDKIMODNSPT RMB 1 SPIRALING CONSTANT MOD NSPT 0056 0001 24: FDK2MODNSPT RMB 1 2*SC MOD NSPT 0058 0001 25: FDK4MODNSPT RMB 1 4*SC MOD NSPT 0059 0001 26: FDK8MODNSPT RMB 1 16*SC MOD NSPT 0050 0001 27: FDK16MODNSPT RMB 1 16*SC MOD NSPT 0050 0001 28: FDK32MODNSPT RMB 1 32*SC MOD NSPT 0058 29: FDMAP EQU * MAP FOR MAPPING 30: ; virtual floppy dcb allocate	0049 0001	15: FDCYL RMB	i	what track we're on (-1 if lost)
004C 0001	004A 0001	16: FDSECTOR RMB	i	GIMME THIS ONE
004D 0002 19: FDHEADCHAIN RMB 2 head of shared-head queue 004F 0002 20: FDNEXTCHAIN RMB 2 next on shared-head queue 0051 0002 21: FDCCB RMB 2 address of controller table 0053 0002 22: FDMAPALG RMB 2 current map algorithm 0055 0001 23: FDK1MODNSPT RMB 1 SPIRALING CONSTANT MOD NSPT 0056 0001 24: FDK2MODNSPT RMB 1 21SC MOD NSPT 0057 0001 25: FDK4MODNSPT RMB 1 44SC MOD NSPT 0058 0001 26: FDK8MODNSPT RMB 1 84SC MOD NSPT 0059 0001 27: FDK16MODNSPT RMB 1 164SC MOD NSPT 0050 0001 28: FDK32MODNSPT RMB 1 324SC MOD NSPT 0058 29: FDMAP EQU \$\frac{1}{2}\$ MAP FOR MAPPING 30: \$\frac{1}{2}\$ virtual floppy dcb allocates room needed for FDMAP	004B 0001	17: FDCOMPLEMENT RMB	1	COMPLEMENT DATA
004F 0002 20: FDNEXTCHAIN RMB 2 next on shared-head queue 0051 0002 21: FDCCB RMB 2 address of controller table 0053 0002 22: FDMAPALG RMB 2 current map algorithm 0055 0001 23: FDK1MODNSPT RMB 1 SPIRALING CONSTANT MOD NSPT 0056 0001 24: FDK2MODNSPT RMB 1 21SC MOD NSPT 0057 0001 25: FDK4MODNSPT RMB 1 44SC MOD NSPT 0058 0001 26: FDK8MODNSPT RMB 1 164SC MOD NSPT 0059 0001 27: FDK16MODNSPT RMB 1 324SC MOD NSPT 0050 0001 28: FDK32MODNSPT RMB 1 324SC MOD NSPT 0050 0001 29: FDMAP EQU 1 MAP FOR MAPPING 30: ; virtual floppy dcb allocates room needed for FDMAP	004C 0001	18: FDFIRSTSEC RMB	i	FIRST SECTOR ON TRACK
0051 0002 21: FDCCB RMB 2 address of controller table 0053 0002 22: FDMAPALG RMB 2 current map algorithm 0055 0001 23: FDK1MODNSPT RMB 1 SPIRALING CONSTANT MOD NSPT 0056 0001 24: FDK2MODNSPT RMB 1 21SC MOD NSPT 0057 0001 25: FDK4MODNSPT RMB 1 41SC MOD NSPT 0058 0001 26: FDK8MODNSPT RMB 1 81SC MOD NSPT 0059 0001 27: FDK16MODNSPT RMB 1 161SC MOD NSPT 0050 0001 28: FDK32MODNSPT RMB 1 321SC MOD NSPT 0058 29: FDMAP EQU 1 MAP FOR MAPPING 30: ; virtual floppy dcb allocates room needed for FDMAP	004D 0002	19: FDHEADCHAIN RMB		head of shared-head queue
0053 0002 22: FDMAPALG RMB 2 current map algorithm 0055 0001 23: FDK1MODNSPT RMB 1 SPIRALING CONSTANT MOD NSPT 0056 0001 24: FDK2MODNSPT RMB 1 21SC MOD NSPT 0057 0001 25: FDK4MODNSPT RMB 1 41SC MOD NSPT 0058 0001 26: FDK8MODNSPT RMB 1 81SC MOD NSPT 0059 0001 27: FDK16MODNSPT RMB 1 161SC MOD NSPT 0058 0001 28: FDK32MODNSPT RMB 1 321SC MOD NSPT 0058 29: FDMAP EQU 1 MAP FDR MAPPING 30: ; virtual floppy dcb allocates room needed for FDMAP	004F 0002	20: FDNEXTCHAIN RMB	2	next on shared-head queue
0055 0001 23: FDK1MODNSPT RMB 1 SPIRALING CONSTANT MOD NSPT 0056 0001 24: FDK2MODNSPT RMB 1 21SC MOD NSPT 0057 0001 25: FDK4MODNSPT RMB 1 41SC MOD NSPT 0058 0001 26: FDK8MODNSPT RMB 1 81SC MOD NSPT 0059 0001 27: FDK16MODNSPT RMB 1 161SC MOD NSPT 005A 0001 28: FDK32MODNSPT RMB 1 321SC MOD NSPT 005B 29: FDMAP EQU 1 MAP FDR MAPPING 30: ; virtual floppy dcb allocates room needed for FDMAP	0051 0002	21: FDCCB RMB		address of controller table
0056 0001 24: FDK2MODNSPT RMB 1 21SC MOD NSPT 0057 0001 25: FDK4MODNSPT RMB 1 41SC MOD NSPT 0058 0001 26: FDK8MODNSPT RMB 1 81SC MOD NSPT 0059 0001 27: FDK16MODNSPT RMB 1 161SC MOD NSPT 005A 0001 28: FDK32MODNSPT RMB 1 321SC MOD NSPT 005B 29: FDMAP EQU 1 MAP FDR MAPPING 30: ; virtual floppy dcb allocates room needed for FDMAP	0053 0002	22: FDMAPALG RMB	2	current map algorithm
0057 0001	0055 0001	23: FDK1MODNSPT RMB		SPIRALING CONSTANT MOD NSPT
005B 0001 26: FDK8MODNSPT RMB 1 8\$\$E MOD NSPT 0059 0001 27: FDK16MODNSPT RMB 1 16\$\$E MOD NSPT 005A 0001 28: FDK32MODNSPT RMB 1 32\$\$E MOD NSPT 005B 29: FDMAP EQU \$\$\$ MAP FOR MAPPING 30: ; virtual floppy dcb allocates room needed for FDMAP	0056 0001	24: FDK2MODNSPT RMB	1	2*SC MOD NSPT
0059 0001 27: FDK16M0DNSPT RMB 1 161SC M0D NSPT 005A 0001 28: FDK32M0DNSPT RMB 1 321SC M0D NSPT 005B 29: FDMAP EQU 1 MAP FOR MAPPING 30: ; virtual floppy dcb allocates room needed for FDMAP	0057 0001	25: FDK4MODNSPT RMB	1	4*SC MOD NSPT
005A 0001 28: FDK32M0DNSPT RMB 1 32*SC MOD NSPT 005B 29: FDMAP EQU * MAP FDR MAPPING 30: ; virtual floppy dcb allocates room needed for FDMAP	0058 0001	26: FDK8MODNSPT RMB	i	8%SE MOD NSPT
005B 29: FDMAP EQU * MAP FOR MAPPING 30: ; virtual floppy dcb allocates room needed for FDMAP	0059 0001	27: FDK16MODNSPT RMB	1	161SC MOD NSPT
30: ; virtual floppy dcb allocates room needed for FDMAP	005A 0001	28: FDK32MODNSPT RMB	i	32#SC MOD NSPT
, , , , , , , , , , , , , , , , , , , ,	005B	29: FDMAP EQU	Ì	MAP FOR MAPPING
005B 31: FDSIZE EQU #		30: ; virtual floppy	dcb allocates r	oom needed for FDMAP
	005B	31: FDSTZE EQU	*	

*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** MAL/6800 1.3F: 005A SDOSDRIVERS 01/14/83 11:39:33; Page 16; Form 1 *** CLOCK: DRIVER *** IOVFD.ASM 33: # Controller Tables 34: 0000 35: ORG 36: 37: CCB:BUSY RMB controller is busy 0000 0001 controller address 38: CCB:ADDR RMB 0001 0002 39: CCB:TIMEOUT seconds before controller times out 0003 0001 RMB 1 40: CCB:DRIVE RMB 1 drive to access 0004 0001 cylinder to access on that drive 0005 0001 41: CCB:CYL RMB 1 RMB last cylinder accessed, that drive 42: CCB:LASTCYL 0006 0001 1 RMB 2 address of STARTIO routine 0007 0002 43: CCB:STARTIO , call for status 0009 0003 44: CCB:STATUS RMB 3 45: CCB: RESET RMB 3 call to abort and interrupt 0000 0003 call to abort 000F 0003 46: CCB: ABORT RMB 3 47: CCB:RESTORE RMB 3 call to restore drive 0012 0003 call to set desired drive and track 0015 0003 48: CCB:SETSEEK ŔMB 3 RMB call to initiate seek 49: CCB: SEEK 3 0018 0003 call to read sector 001B 0003 50: CCB: READSECTOR RMB 3 001E 0003 51: CCB: WRITESECTOR RMB 3 call to write sector RMB 3 call to verify sector just written 0021 0003 52: CCB: VERIFYSECTOR · TIMEOUT:SIZE timeout block for controller 53: CCB:TIMEDUTBLK RMB 0024 0008 address of current DCB 54: CCB:CURRENTDCB 2 002C 0002 RMB 002E 55: CCB:SIZE EQU İ 8551 56: ORG **IODRIVERBODY** 57: FIN 10DRIVERRAM 58: 0000 IF FIN 10DRIVERRAM 127: 128: IF IODRIVERINIT 0000 172: FIN IODRIVERINIT. 173: IF 10DRIVERBODY 0001

MAL/6800 1.3F:	8551 SDOSDRIVER	S *** SDOS :	<pre>1/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***</pre>
01/14/83 11:39	:33; Page 17; For	m 1 *** CLOCK	: DRIVER ***
IOVFD. ASM	, , ,		
8551 9DE3	175: FDDRIVER	FDB FDRESTORE	
8553 856D	176:	FDB FDREAD	•
8555 8569	177:	FDB FDWRITE	
8557 858F	178:	FDB FDWAITDON	Ε
8559 8566	179:	FDB FDSTATUS	
855B 855D	180:	FDB FDCONTROL	,
	181:		
	182:		
	193: #	FDCONTROL CONTI	ROL OPERATION ENTRY POINT FOR SECTOR 1/0 DRIVER
	184:		
855D 8111	185: FDCONTROL	CMPA #CC: DISMO	UNTDISK SINCE SDOS PASSES THIS THRU
855F 2703	186:	BEQ FDDISHOUN	T B/ ITS A DISMOUNT!
8561 7E8EDB	187:	JMP ILLDEVICE	OP NOT A LEGAL CONTROL CALL
	188:		
8564 OC39	189: FDDISMOUNT	OKRTS	I'M HAPPY
	190:		
	191: *	FDSTATUS HANDLE	STATUS REQUEST
	192:		
8566	193: FDSTATUS		
8566 7E8EDB	174:	JMP ILLDEVIC	EOP ; NO SUCH STATUS AVALIABLE
	195:		•
	, ,		

MAL/6800 1.3F: 8566 SDOSDRIVERS *** SDOS I/D drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** 01/14/83 11:39:33; Page 18; Form 1 *** CLOCK: DRIVER *** IDVFD. ASM 197: * FDREAD/WRITE -- START SINGLE SECTOR TRANSFER 198: 8569 8601 199: FDWRITE LDAA #1 FDREAD.1 8568 2001 200: BRA 856D 4F 201: FDREAD CLRA 202: FDREAD.1 JSR **FDSETUPDRIVE** GD SET UP ALL THE PARAMETERS IN THE DCB 856E BD85AF 203: LDX FDCC8,X see if controller is busy 8571 EE51 CC8: BUSY, X 8573 AD00 204: TST 8575 2603 8NE FDSTARTIO 205: SDOS+SDOS: WAITEVENT 8577 BDBE2A 206: JSR NOW NOBODY'S USING DRIVE 857A DE06 207: FDSTARTIO LDX DCBPOINTER DCB: DONEFLAG, X KICK INTERRUPT ROUTINE INTO MOTION . 857C 6F00 208: CLR point controller table at this DC8 857E EE51 209: LDX FDCCB, X LDAA DCBPDINTER 8580 9606 210: DCBPOINTER+1 LDAB 8582 D607 211: STAA CCB: CURRENTDCB. X 8584 A72C 212: CC8: CURRENTDCB+1, X STAB 8586 E720 213: 8588 EE07 214: LDX CCB: STARTIO, X JSR SDDS+SDDS:STARTIO 858A BD8E24 215: 858D 0C39 216: **DKRTS** 217: 858F 218: FDWAITDONE 858F A600 219: LDAA DCB: DONEFLAG, X IS IT DONE? 8591 2605 220: BNE FDWAIT1 B/ YES SDOS+SDOS: WAITEVENT 8593 8D8E2A 221: JSR 222: DCBPOINTER 8596 DE06 LDX 8598 EE01 223: FDWAIT1 LDX DCB: LASTERROR. X BEQ FDWAIT2 8/ NO ERRORS 859A 2703 224:

859C 7E8EE0

859F 0C39

225:

JMP

226: FDWAIT2 OKRTS

ERRETX

```
*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
MAL/ABOO 1.3F: 859F SDOSDRIVERS
                                         *** CLOCK: DRIVER ***
01/14/83 11:39:33; Page 19; Form 1
IDVFD.ASM
 85A1
                228: MODULONSPTB
                229:
                                         DSKINFO: NSPT+1, X
85A1 E00C
                                SUBB
85A3 24FC
                230:
                               BCC
                                         MODULONSPT8
                231:
                                ADDB
                                         DSKINFO: NSPT+1.X
85A5 EBOC
                232:
                               RTS
85A7 39
                233:
  85A8
                234: MODULONSPT
85A8 A00C
                235:
                                SUBA
                                         DSKINFO: NSPT+1, X
85AA 24FC
                236:
                                BCC
                                         MODULONSPT
                                ADDA
                                         DSKINFO: NSPT+1, X
85AC ABOC
                237:
85AE 39
                238:
                                RTS
                239:
                240: *
                                FDSETUPDRIVE -- SETS UP FDDRIVE TABLE FOR INTERRUPT DRIVEN TRANSFER
                241:
                242: FDSETUPDRIVE
. 85AF
                243:
                               LDX
                                         DCBPOINTER
85AF DE06
                                STAA
                                         FDREADWRITE, X
                                                            SAVE THE READ/WRITE FLAG
                244:
8581 A742
85B3 C60A
                245:
                                LDAB
                                         #10
85B5 E747
                246:
                                STAB
                                         FDRETRY, X
                                                            SAVE THE READ/WRITE RETRY COUNT
                                                             SETUP SEEK RETRY COUNT
85B7 8604
                247:
                                LDAA
                                                             ·5 '
                248:
                                STAA
                                         FDSEEKRETRY, X
8589 A746 .
                                                             "NO ERRORS"
                249:
                                CLR
                                         DCB: LASTERROR. X
858B 6F01
                                CLR
85BD 6F02
                250:
                                         DCB:LASTERROR+1,X
85BF E616
                251:
                                LDAB
                                         DSKINFO: MAPALGORITHM, X
                252:
                                LDAA
                                         DSKINFO: MAPALGORITHM+1, X
85C1 A617
                253:
                                CMPB
                                         FDMAPALG, X
85C3 E153
                                                             B/ MAP HAS CHANGED
85C5 2604
                254:
                                BNE
                                         FDSETUP1
                                         FDMAPAL6+1,X
85C7 A154
                255:
                                CMPA
8509 2742
                256:
                                BEQ
                                         FDSETUP2
                                                             B/ MAP HAS NOT CHANGED
                                         FDMAPALG, X
85CB E753
                257: FDSETUP1 STAB
                                         FDMAPALG+1,X
85CD A754
                258:
                                STAA
                259:
                260: BUILDMAP
85CF DF00
                               STX
                                         TEMPX
                261:
                                NEGA
85D1 40
                                                            NUMBER OF TIMES TO DO THIS
85D2 E60C
                262:
                                LDAB
                                         DSKINFO:NSPT+1,X
                                         DCBPOINTER
85D4 DE06
                263: BUILDMAP1 LDX
                                         DSKINFO: MAPALGORITHM+1, X
85D6 AB17
                264:
                                ADDA
                265: BUILDMAP2 BSR
                                         MODULONSPI
8508 TO
                                         DCBPOINTER
                                                             SEE IF THIS SECTOR NUMBER
85DA TOLL
                266:
                             CLDX
                                                               ALREADY USED
85DC 09
                267:
                                DEX
85DD 08
                268: BUILDMAP3 INX
85DE 9C00
                269:
                                CPX
                                         TEMPX
                270:
                                         BUILDMAP4
                                                             B/ NOT USED, USE IT
85E0 2707
                                BED
85E2 A15B
                271:
                                CMPA
                                         FDMAP.X
                                                             B/ IT'S NOT THIS ONE, KEEP LOOKING
85E4 26F7
                272:
                                BNE
                                         BUILDMAP3
                                                             OH WELL, LET'S BUMP IT AND TRY AGAIN
85E6 4C
                273:
                                INCA
                274:
                                BRA
                                         BUILDMAP2
85E7 20EF
                275: BUILDMAP4 STAA
                                         FDMAP, X
85E9 A75B
                276:
                                INX
85EB 08
85EC DF00
                277:
                                STX
                                          TEMPX
                                                             ARE WE DONE BUILDING THE MAP?
                278:
                                DECB
85EE 5A
                279:
                                BNE
                                          BUILDMAP1
                                                             B/ NOPE
85EF 26E3
                280:
                 281: *
                                BUILD UP THE SPIRALING INFU
                 282:
```

MAL/6800 1.3	F: 85F1 SDOS	DRIVERS	*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
	39:33; Page 2		*** CLOCK: DRIVER ***
IOVFD.ASM	, ,	•	
85F1 DE04	283:	LDX	DCBPOINTER
85F3 A653	284:	LDAA	FDMAPALG, X
85F5 8DB1	285:	BSR	HODULONSPT
85F7 A755	286:	STAA	FDK1MODNSPT, X
85F9 48	287:	ASLA	
85FA 8DAC	288:	BSR	MODULONSPT
85FC A756	289:	STAA	FDK2MODNSPT, X
85FE 48	290:	ASLA	
85FF 8DA7	291:	BSR	HODULONSPT
8601 A757	292:	STAA	FDK4MODNSPT, X
8603 48	293:	ASLA	
8604 8DA2	294:	BSR	MODULDNSPT
8606 A758	295:	STAA	FDK8MODNSPT, X
8608 48	296:	ASLA	
8609 BD9D	297:	BSR	MODULONSPT
860B A759	298:	STAA	FDK16MODNSPT, X

		THE WAY THE AND LOSS CONTROL DUNGWISH AND
MAL/6800 1.3F: 860B SDOSDRIVERS		ers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
01/14/83 11:39:33; Page 21; Form 1	*** CLOCK: DRIVER	***
IOVFD. ASM		
•	PUTE TARGET CYLINDER A	
860D EE2B 301: LDX	DSKINFO: SECTORDB,	
860F A603 302: LDAA		GET LSN
8611 E604 303: LDAE		
8613 DE06 304: LDX	DCBPOINTER	SO WE CAN POKE AT DCB AGAIN
305: ;		1
306: ; Now generat	e 8 quotient bits (eno	ugh for 255 tracks!)
307: ;		
8615 58 308: ASLE	1	it takes 8 ASLD's to shift sector
8616 49 309: ROLA		number into upper byte
8617 A00C 310: SUBA	DSKINFO:NSPT+1,X	Compute quotient bit
8619 2402 311: BCC	1+4	b/ did go in, quotient bit is 1
861B ABOC 312: ADDA	DSKINFO:NSPT+1,X	didn't go in, quotient bit is zero
861D 694A 313: ROL	FDSECTOR, X	save complement of quotient bit
861F 58 314: ASLB		double the dividend
8620 49 315: ROLA		мымам чим имтримпи
316:		
8621 A00C 317: SUBA	DSKINFO:NSPT+1,X	Compute quotient bit
8623 2402 318: BCC	1+4	b/ did go in, quotient bit is 1
		- · · · · · · · · · · · · · · · · · · ·
8625 ABOC 319: ADDA		didn't go in, quotient bit is zero
8627 694A 320: ROL	FDSECTOR, X	save complement of quotient bit
8629 58 321: ASLE		dauble the dividend
862A 49 322: ROLF		•
323:		
862B A00C 324: SUBA	•	Compute quatient bit
862D 2402 325: BCC	1+4	b/ did ga in, quotient bit is 1
862F ABOC 326: ADDA	DSKINFO:NSPT+1,X	didn't go in, quotient bit is zero
8631 694A 327: ROL	FDSECTOR, X	save complement of quotient bit
8633 58 328: ASLE		double the dividend
8634 49 329: ROLA	1	
330:		
8635 A00C 331: SUBA	DSKINFO:NSPT+1,X	Compute quotient bit
8637 2402 332: BCC	1+4	b/ did go in, quotient bit is 1
8639 ABOC 333: ADDA	DSKINFO:NSPT+1,X	didn't ga in, quotient bit is zero
863B 694A 334: ROL	FDSECTOR, X	save complement of quotient bit
863D 58 335: ASLE		double the dividend
863E 49 336: ROLA	} ·	
337:	•	
863F A00C 338: SUBA	DSKINFO: NSPT+1, X	Compute quotient bit
8641 2402 339: BCC	‡+4	b/ did go in, quotient bit is 1
8643 ABOC 340: ADDA		didn't go in, quotient bit is zero
8645 694A 341: ROL	FDSECTOR, X	save complement of quotient bit
8647 58 342: ASLE		double the dividend
8648 49 343: ROLI		THE RESERVE OF THE PROPERTY OF
344;		
8649 A00C 345: SUBA	DSKINFO:NSPT+1,X	Compute quotient bit
864B 2402 346: BCC		b/ did go in, quotient bit is 1
864D ABOC 347: ADDA		didn't go in, quotient bit is zero
	•	
864F 694A 348: ROL	FDSECTOR, X	save complement of quotient bit
8651 58 349; ASLE		double the dividend
8652 49 350: ROLA		,
351:	ROLINGO, NORT, 4 F	Barrie andred bit
8653 AOOC 352: SUBF		Compute quotient bit
8655 2402 353: BCC	\$+4 noursen wast.	b/ did ga in, quotient bit is 1
8657 ABOC 354: ADDA	DSKINFO:NSPT+1,X	didn't go in, quotient bit is zero



01/14/83 11:39:33; Page 22; Form 1		*** CLOCK: DRIVER ***				
IOVFD.ASM						
8659 694A	355:	ROL	FDSECTOR, X	save complement of quotient bit.		
845B 58	356:	ASLB		double the dividend		
865C 49	357:	ROLA				
	358:			•		
865D A00C	357:	SUBA	DSKINFO: NSPT+1, X	Compute quotient bit		
865F 2402	360:	BCC	*+4	b/ did go in, quotient bit is 1		
8661 ABOC	361:	ADDA	DSKINFO: NSPT+1, X	didn't go in, quotient bit is zero		
8663 694A	362:	ROL	FDSECTOR, X	save complement of quotient bit		
	363: ;	ASLB	•	double the dividend		
	364: ;	ROLA	κ'	M .		
	365:		,			
8665 E64A	366:	LDAB	FDSECTOR, X	get complement of desired track		
8667 53	367:	COMB	, , , , , , , , , , , , , , , , , , , ,	invert the inverted quotient bits		
8668 A74A	368:	STAA	FDSECTOR, X	save sector within track		
866A EE2B	369:	LDX		now save cylinder number in RDSI		
866C 6F11	370:	CLR	RDSI:CYLINDER,X	· ·		
866E E712	371:	STAB	RDSI:CYLINDER+1,X			
8670 6FOD	372:	CLR	RDSI:SECTOR,X			
8672 6F0E	373:	CLR	RDSI:SECTOR+1,X			
8674 DE06	374:	LDX	DCBPOINTER .			

MAL/6800 1:3F:				ers for WaveMate Jupiter II (C) 1978 SOF	TWARE DYNAMICS ***
01/14/83 11:3	9:33; Page 23;	Form 1	*** CLOCK: DRIVER	111	
IOVFD. ASM	***	. 5.0	PRUSPALA V		
8676 EE53	376:	FDX	FDMAPALG, X	apply mapalgorithm	
8678 800001	377:	СРХ	#\$0001	unless it is :0001	
867B 2734	378:	BEQ	FDSETUP4	B/ map algorithm :0001, all done!	
867D 9B07	379:	ADDA	DCBPOINTER+1		
867F 9701	380:	STAA	TEMPX+1		
8681 9606	381:	LDAA	DCBPOINTER	•	
8683 8900	382:	ADCA	#0	· .	•
9685 9700	383:	STAA	TEMPX		
8697 4F	384:	CLRA	,	make spiral in (A)	
8688 DE06	385:	LDX	DCBPOINTER	assert: cylinder number in (B)	•
868A BD85A1	386:	JSR	MODULONSPTB		1
868D 57	387:	ASRB	uana		
868E 2402	388:	BCC	HAP1		
8690 AB55	389:	ADDA	. FDK1MODNSPT,X	•	V
8692 57	390: MAP1	ASRB	11.5 m m		
8693 2402	391:	BCC	MAP2		
8695 AB56	392:	ADDA	FDX2MOONSPT,X		
8697 57	393: MAP2	ASRB			
8698 2402	394:	BCC	MAP3		
869A AB57	395:	ADDA	FDK4MODNSPT,X		
869C 57	396: MAP3	ASRB	Vene		
869D 2402	397:	DCC	MAP4		
869F AB58	398:	ADDA	FDK8MODNSPT,X		
86A1 57	399: MAP4	ASRB	MARP		
86A2 2402	400:	BCC	MAP5		
86A4 AB59	401:	ADDA	FDK16MODNSPT,X		
003G 6A68	402: MAP5	LDX	TEMPX		
86A8 AB5B	403:	ADDA	FDMAP, X		
86AA DE06	404:	LDX	DCBPOINTER		
86AC BD85A8	405:	JSR	MODULONSPT		
86AF A74A	406:	STAA	FDSECTOR, X		*
86Bi	407: FOSETU				
8681 DE06	408:	FDX	DCBPOINTER		
86B3 0C39	409:	OKRTS			,
	410:	FIN	IODRIVERBODY	•	
0000	411:	IF	IODRIVERPOLL		
	434:		DRIVERPOLL	e.	
0001	435:		DRIVERBODY		
8685			ntered with CCB add		
8685 8D02	437:		SKINTSETUP	set up a working context area	
8687 6E43	438:	JMP FO	DSTATEJ,X	resume process waiting for interrupt	r.

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*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
MAL/6800 1.3F: 8687 SDOSDRIVERS
01/14/83 11:39:33; Page 24; Form 1
                                       *** CLOCK: DRIVER ***
IOVFD.ASM
                                   ; set up a context area of sorts
 86B9
                440: DISKINTSETUP
                                    DISKINICCB remember interface table address
86B9 FF9015
                441:
                             STX
86BC EE2C
                442:
                             LDX
                                    CCB: CURRENTDCB, X
                             STX
                                    DISKINTDEB
                443:
86BE FF9013
86C1 39
                444:
                             RTS
                445:
  0002
                446:
                             IF
                                    PERSCI
                447: DISKINTSTARTPERSCI
                                                            : ASSERT: INTERRUPTS ARE DISABLED HERE!
  86C2
86C2 CE9017
                448:
                             LDX
                                    #CCB: PERSCI
                             IF
                                    DAMFLOPPY
 0002
                449:
                                    DISKINTSTART
                             BRA
8605 2003
                450:
                451:
                             FIN
                                    DAMFLOPPY
                452:
                453:
                             FIN
                                    PERSCI
                             IF
                                    DAMFLOPPY
                454:
  0002
                                                            : ASSERT: INTERRUPTS ARE DISABLED HERE!
  8607
                455: DISKINTSTARTDAMFLOPPY
                                    #CCB: DAMFLOPPY
86C7 CE9045
                456:
                             LDX
                457:
                             FIN
                                    DAMFLOPPY
                458: DISKINTSTART
  84CA
                                    CCB: BUSY, X
                                                            mark controller busy
86CA 6F00
                459:
                             CLR
                                                            (allow interrupts)
                             CLI
                460: $
                                                            Set up for 6 1-second interrupts
                             LDAA
8600 8606
                461:
                                    #6
                                                              to keep disk spinning
86CE A703
                462:
                             STAA
                                    CCB:TIMEOUT,X
                                    #(1*TICKSPERSECOND+NTIMEOUTBLOCKS)/256
84D0 8400
                463:
                             LDAA
                                    #(1*TICKSPERSECOND+NTIMEDUTBLOCKS)&$FF
86D2 C645
              -464:
                             LDAB
                465:
                             STAA
                                    CCB:TIMEOUTBLK+TIMEOUT:FUSE,X
86D4 A726
                             STAB
                                    CCB:TIMEOUTBLK+TIMEOUT:FUSE+1,X
86D6 E727
                466:
                467:
                             BSR
                                    DISKINTSETUP
                                                            set up a working context area
86D8 8DDF
86DA A642
                468:
                             LDAA
                                    FDREADWRITE, X
                                                            a write to an IBM format disk
                469:
                             BEQ
                                                             must have the data complemented
86DC 2707
                                    SEEK
                470:
                                                                before it is written
                             TST
                                    FDCOMPLEMENT, X
86DE 6D4B
                                                                 (and complemented back, after
                             BED
86E0 2703
                471:
                                    SEEK
                                                                    it has been written)
                             JSR
                                    DISKCOMPLEMENT
```

86E2 BD87FB

472:

```
MAL/6800 1.3F: 86E2 SDOSDRIVERS
                                          *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
01/14/83 11:39:33: Page 25: Form 1
                                          *** CLOCK: DRIVER ***
IOVFD.ASM
                                                                                                         Shald set
twent on
seele,
and on
read/arrep
instead of over
entire
operation.
                474: $
                              See if the head must be moved with a seek operation;
                475: 1
                              if it must, the seek is done without verification, as a seek
                476: *
                              failure will be picked up by a subsequent read/write as
                477: $
                              "record not found" status, for which the remedy will be
                478: *
                              a restore operation. The restore operation IS verified; if
                479: 1
                              it fails, a "seek error" is registered, and the restore is
                480: *
                              retried, up to the seek-retry count.
                481: $
                482: *
86E5 FE9015
                483: SEEK
                              LDX
                                     DISKINTCCB
                                                               announce intentions
86E8 AD15
                 484:
                              JSR
                                     CCB: SETSEEK. X
86EA 2412
                485:
                              BCC
                                     SEEKDONE
                                                               B/ no seek necessary
86EC CIFF
                 486:
                              CMP8
                                     #-1
                                                               a seek is necessary: if the B register
86EE 2730
                487:
                              8EQ
                                     SEEKHOME
                                                                contains a -1, then I am lost and
86F0 FE9015
                 488:
                              LDX
                                     DISKINTCCB
                                                                   must do a restore; otherwise, a
86F3 AD18
                487:

    standard seek will suffice

                              JSR
                                     CCB: SEEK. X
86F5 EE28
                 490:
                              LDX
                                                               I assert that I am on the right track
                                      DSKINFO: SECTORDB, X
86F7 A612
                491:
                              LDAA
                                     ROSI: CYLINDER+1, X
86F9 FE9013
                492:
                              LDX
                                      DISKINTDCB
                                                               remember which track we are on
86FC 8D76
                493:
                                     DISKSETCYLADD
                 494: SEEKDONE
  86FE
86FE EE28
                495:
                              LDX
                                     DSKINFO: SECTORD8.X
                                                               pick up the buffer page number in the
8700 E605
                496:
                              LDAB
                                     RDSI:SECTORBASE,X
                                                                 8 register. pick up the sector number
8702 FE9013
                497:
                                     DISKINTDCB
                                                                   in the A register and offset by
8705 A64A
                 498:
                              LDAA
                                     FDSECTOR, X
                                                                     the track base sector
8707 AB4C
                499:
                              ADDA
                                     FDFIRSTSEC, X
8709 6D42
                500:
                              TST
                                                               go off and do the read or write, as
                                     FDREADWRITE, X
8709 2673
                501:
                              BNE
                                     DISKWRITE
                                                                 appropriate
870D 7E87D4
                502:
                              JMP
                                     DISKREAD
                503:
```

504: **** THE WESTERN DIGITAL TRICK OF STEP IN ONE/STEP OUT ONE SHOULD

505: *** BE ADDED TO MAKE THE DRIVER MORE ROBUST.

506: *** BUT DENNIS PAINTER SEZ IT DOESN'T WORK ON A PERSCI.

MAL/6800 1.3F:	8710 SDOSDRI	VERS	*** SDDS I/O driver	s for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
01/14/83 11:39:	33; Page 26;	Form 1	*** CLOCK: DRIVER *	13
IOVFD.ASM				•
8710 A733	508: SEEK3	STAA	DSKINFD:SEEKERRSTS+1,X	count a seek error, and
8712 6C31	509:	INC	DSKINFD: SEEKERRCNT+1, X	save the error status
8714 2602	510:	BNE	SEEK3.1	
8716 6030	511:	INC	DSKINFO:SEEKERRCNT, X	•
8718 B6FF	512: SEEK3.1	LDAA	#-1	Say that I lost my place
871A BD58	513:	BSR	DISKSETCYLADD	
871C 6A46	514:	DEC	FDSEEKRETRY, X	DDWN COUNT # TRIES LEFT
871E 2715	515:	DEO	DISKSEEKERROR	B/ GAK! CRDAK! DIE
8720	514: SEEKHOM	E		
8720 8D4D	517:	BSR	DISKABDRT	KILL WHATEVER DISK IS DOING
8722 FE9015	518:	LDX	DISKINTCCB	
8725 AD12	519:	JSR	CCB: RESTORE, X	
8727 FE9015	520:	LDX	DISKINTCCB	
872A AD09	521:	JSR	CCB:STATUS,X	*** why doesn't this check for success?
872C 8504	522:	BITA	#%00000100	(DN OTHER HAND, IF CYL 0, WHO CARES?)
872E 27E0	523:	BEQ	SEEK3	B/ DIDN'T GET TO CYL O FOR SOME REASON!?
8730 4F	524:	CLRA		
8731 8D41	525:	BSR	DISKSETCYLADD	SET "I'M AT CYLINDER O"
B733 20B0	526:	BRA	SEEK	GO TRY SEEK TO PROPER TRACK AGAIN
			•	
				·

MAL/6800 1.3F: 8733 SDOSDRIVERS			SDOSDRIVERS	*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***					
01/14/83 11:39:33; Page 27; Form 1			age 27; Form 1	*** CLOCK: DRIVER	***				
IOVFD. ASM				•					
8735 528: DISKSEEKERROR									
	8735 8604	529:	LDAA	#ERR:DISKSEEK/256	GET APPROPRIATE ERROR CODE				
	8737 C617	530:	LDAB	#ERR:DISKSEEK&\$FF	•		•		
	8739 2012	531:	BRA	DISKERROR1	,				
		532:							
	873B	533:	DISKWPERR		,				
	8738 8604	534:	LDAA	#ERR:DSKWRTPROT/256					
	873D C618	535:	LDAB	#ERR:DSKWRTPROT&\$FF					
	873F 200C	536:	Bra	DISKERROR1	•				
		537:							
	8741		•	tal read or write error					
	8741 8604	539:		#ERR:DISKREAD/256	ASSUME READ ERROR				
	8743 C615	540:	LDAB	#ERR: DISKREAD&#FF					
	8745 6D42	541:	TST	FDREADWRITE, X	WAS IT A READ OR A WRITE?				
	8747 2704	542:	BEQ	DISKERROR1	B/ IT'S A READ				
	8749 8604	543:	LDAA	#ERR:DISKWRITE/256					
	874B C616	544:		#ERR:DISKWRITE&\$FF					
	874D	545:	DISKERRORI		,				
	874D A701	546:	STAA	DCB:LASTERROR,X					
	874F E702	547;		DCB:LASTERROR+1,X					
	8751	548:	DISKDONE		•				
	8751 ACOO	549:		DCB: DONEFLAG, X	SIGNAL "DISK DONE"				
	8753 FE9015	550:		DISKINTCCB			,		
	8756 6000	551:		CCB:BUSY,X	SD TASK KNOWS WE'RE FREE				
	8758		DISKDONE1						
	8758 FE9013	553:	LDX	DISKINTDCB					
	875B BD8828	554:	JSR	WAITFORINTERRUPT	•				
	875E	•	DISKINTUNEXPEC						
	875E 8D0F	556:		DISKABORT					
	8760 20F6	557:	Bra	DISKDONE1	•				

```
*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SDFTWARE DYNAMICS ***
MAL/6800 1.3F: 8760 SDOSDRIVERS
                                        *** CLOCK: DRIVER ***
01/14/83 11:39:33; Page 28; Form 1
IDVFD.ASM
                559: CHECKDISKREADY
 8762
                560: : It would be nice if this could be used to tell one that the drive
                561: : did not have a diskette in it... Thank you Dennis Brown
                                    DISKINTCCB
                                                        return carry set if not ready;
                             LDX
8762 FE9015
                             JSR
                                    CCB: STATUS, X
                                                              carry reset if ready--
8765 AD09
                563:
                                                                in either case, status is in A
8767 16
                564:
                             TAB
8768 59
                565:
                             ROLB
                             RTS
8769 39
                566:
                567:
  876A
                568: MAKEDISKREADY
                             LDX
                                    DISKINTCCB
876A FE9015
                569:
876D 6E0C
                570:
                             JMP
                                    CCB: RESET, X
                571:
                572: DISKABORT
  876F
                                                            abort whatever's being done
                                    DISKINTCCB
876F FE9015
                573:
                             LDX
                             JMP
                                    CCB: ABORT, X
8772 4E0F
                574:
                575:
  8774
                576: DISKSETCYLADD; mark DCBs that share heads as all being on track (A)
                577:
                             LDX
                                    FDHEADCHAIN, X
8774 EE4D
                578: DISKSETCYLADD.1
  8776
                                                           all DCB's sharing the same head
                             STAA FDCYL.X
8776 A749
                579:
                                                               mechanism are chained together
                             LDX
                                    FDNEXTCHAIN, X
8778 EE4F
                580:
                                                                 so that all FDCYL values will
877A 26FA
                581:
                             BNE
                                    DISKSETCYLADD.1
                582:
                             LDX
                                    DISKINTDCB
                                                                   be equally correct
877C FE9013
877F 39
                583:
                             RTS
```

MAL/6800 1.3F: 01/14/83 11:39:				ers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
IDVFD.ASM	. no; rage .	ary tura a	*** OLDON: DHITLE	,
8780	585: DIS	(WRITE		
8780 FE9015	586:	LDX	DISKINTCCB	
8783 AD1E	587:	JSR	CCB:WRITESECTOR,X	
8785 8DDB	588:	BSR	CHECKDISKREADY	
8787 8540	589:	BITA	#%01000000	IS DISK WRITE PROTECTED ?
8789 2690	590:	BNE	DISKWPERR	B/ YEP.
878B 2404	591:	BCC	DISKWRITE2	B/ READY
878D 8DDB	592:	BSR	MAKEDISKREADY	since the drive must have shut down,
878F 200F	593:	BRA	SEEKDONEJ	we'll try this again
	594:		,	,
8791	595: DIS	WRITE2		
8791 857C	596:	BITA	#701111100	Is the write DK?
8793 2612	597.:	BNE	DISKWRITE4	B/ NO
8795 FE9015	598:	LDX	DISKINTCCB	,
8798 AD21	599:	JSR	CCB: VERIFYSECTOR, X	do a verify
879A 8DC6	600:	BSR	CHECKDISKREADY	WELL?
879C 2405	601:	BCC	DISKWRITE3	B/ 10-4
879E 8DCA	602:	BSR	MAKEDISKREADY	It's not, so we'll try the write again
87A0	603: SEE	KDONEJ		
87A0 7E86FE	604:	JMP	SEEKDONE	

### 8783 8518					DISKWRITE3	606:	10VFD.ASM 87A3
### ### ### ### ### ### ### ### ### ##	, ',		record not found or CRC error?	#%00011000	BITA	607:	87A3 8518
### B7A7 A736			B/ noeverything's OK	DISKDONEJ1	BEQ	408:	87A5 273E
### ### ### ### ### ### ### ### ### ##					DISKWRITE4	609:	87A7
87AB &C35			SAVE WRITE ERROR STATUS	DSKINFO: WRITEERRSTS, X	STAA	610:	87A7 A736
### BYAD 2602 613: BNE DISKWRITE5 ### B785 6C34 614: INC DSKINFO:WRITEERRCNT, X ### B781 615: DISKWRITE5 ### B781 645: DISKWRITE5 ### B783 270C 617: BEQ DISKERRORJ B/ NO MORE TRIES LEFT ### B785 270C 617: BEQ DISKERRORJ B/ NO MORE TRIES LEFT ### B787 5A 619: DECB (=1?) ### B788 2704 620: BEQ SEEKHOMEJ B/ YES, TRY HARDER ### B780 621: BITA ### A00010000 ND, DID WE GET "RECORD NOT FOUND" ? ### B780 2722 622: BEQ SEEKDONEJ B/ NOPE, TRY READ/WRITE AGAIN #### B780 625: ### B781 625: SEEKHOME ### B782 625: ### B783 SEEKHOME ### B784 626: DISKERRORJ ### B785 626: DISKERRORJ ### B786 626: DISKERRORJ ### B787 626: DISKERRORJ ### B787 627: JMP DISKERROR ### B788 628: B789 630: LDX DSKINFO:SECTORDB, X ### B789 630: LDX DSKINFO:SECTORDB, X ### B789 633: LDA DISKINTOCB ### B789 633: LDA DISKINTOCB ### B789 634: CLR DSKINFO:ERRLSN+1, X ### B780 635: STAA DSKINFO:ERRLSN+2, X ### B781 636: STAA DSKINFO:ERRLSN+2, X ### B781 636: STAA DSKINFO:ERRLSN+2, X ### B781 6441 6451 6451 6451 6451 6451 6451 645	* 1		SAVE ERRORING LSN	DISKSAVEERRLSN	BSR	611:	87A9 8D19
### ### ### ### ### ### ### ### ### ##			COUNT # WRITE ERRORS	DSKINFO: WRITEERRCNT+1, X	INC	612:	87AB 6C35
87B1			•	DISKWRITES	BNE	613:	87AD 2602
### 8781 6447				DSKINFO: WRITEERRCNT, X	INC	614:	87AF 6C34
87B3 27OC 617: BEQ DISKERRORJ B/ NO MORE TRIES LEFT 87B5 E647 618: LDAB FDRETRY, X ON LAST TRY? 87B7 5A 619: DECB (=1?) 87B8 2704 620: BEQ SEEKHOMEJ B/ YES, TRY HARDER 87B8 8510 621: BITA #X00010000 ND, DID WE GET "RECORD NOT FOUND"? 87BC 27E2 622: BEQ SEEKDONEJ B/ NOPE, TRY READ/WRITE AGAIN 87BE 623: SEEKHOMEJ 87BE 7E8720 624: JMP SEEKHOME GD SEE IF RE-SEEK HELPS 625: 87C1 626: DISKERRORJ 87C1 7E8741 627: JMP DISKERROR 628: 87C4 629: DISKSAVEERRLSN; save RDSI:LSN in DCB 87C4 629: DISKSAVEERRLSN; save RDSI:LSN in DCB 87C4 620 631: LDA DSKINFD:SECTORDB, X 87C6 A603 631: LDAA RDSI:LSN+1, X 87C8 E604 632: LDAB RDSI:LSN+2, X 87CA FE9013 633: LDX DISKINTDCB 87CD 6F3F 634: CLR DSKINFD:ERRLSN, X 87CF A740 635: STAA DSKINFD:ERRLSN+2, X 87D1 6741 636: STAA DSKINFD:ERRLSN+2, X			•		DISKWRITES	615:	87B1
8785 E647 618: LDAB FDRETRY, X ON LAST TRY ? 8787 5A 619: DECB (=1?) 8788 2704 620: BED SEEKHOMEJ B/ YES, TRY HARDER 8788 8510 621: B1TA #X00010000 ND, DID WE GET "RECORD NOT FOUND" ? 878C 27E2 622: BED SEEKDONEJ B/ NOPE, TRY READ/WRITE AGAIN 878E 623: SEEKHOMEJ 878E 7E8720 624: JMP SEEKHOME GD SEE IF RE-SEEK HELPS 625: 87C1 626: DISKERRORJ 87C4 629: DISKSAVEERRLSN ; save RDSI:LSN in DCB 87C4 629: DISKSAVEERRLSN ; save RDSI:LSN in DCB 87C4 6E2B 630: LDX DSKINFD:SECTORDB, X 87C6 6604 632: LDAB RDSI:LSN+1, X 87C8 E604 632: LDAB RDSI:LSN+2, X 87C9 F69013 633: LDX DISKINTDCB 87C9 6F3F 634: CLR DSKINFO:ERRLSN, X 87CF A740 635: STAA DSKINFO:ERRLSN+1, X 87D1 1741 636: STAA DSKINFO:ERRLSN+2, X 87D1 1741 636: STAA DSKINFO:ERRLSN+2, X				FDRETRY, X	DEC	616:	8781 6A47
8787 5A			B/ NO MORE TRIES LEFT	DISKERRORJ	BEQ	617:	87B3 270C
8788 2704 620: BEQ SEEKHOMEJ B/ YES, TRY HARDER 878A 8510 621: BITA #%00010000 ND, DID WE GET *RECORD NOT FOUND*? 878C 27E2 622: BEQ SEEKDONEJ B/ NOPE, TRY READ/WRITE AGAIN 878E 623: SEEKHOMEJ 878E 7E8720 624: JMP SEEKHOME GD SEE IF RE-SEEK HELPS 625: 87C1 626: DISKERRORJ 87C1 7E8741 627: JMP DISKERROR 628: 87C4 629: DISKSAVEERRLSN ; save RDSI:LSN in DCB 87C4 EE2B 630: LDX DSKINFD:SECTORDB, X 87C6 A603 631: LDAA RDSI:LSN+1, X 87C8 E604 632: LDAB RDSI:LSN+2, X 87C8 FE9013 633: LDX DISKINFDCB 87C9 6F3F 634: CLR DSKINFD:ERRLSN, X 87CF A740 635: STAA DSKINFO:ERRLSN+1, X 87D1 E741 636: STAA DSKINFO:ERRLSN+2, X				FDRETRY, X	LDAB	618:	8785 E647
87BA 8510 621: BITA #X00010000 ND, DID WE GET "RECORD NOT FOUND" ? 87BC 27E2 622: BEQ SEEKDONEJ B/ NOPE, TRY READ/WRITE AGAIN 87BE 623: SEEKHOMEJ 87BE 7E8720 624: JMP SEEKHOME GO SEE IF RE-SEEK HELPS 625: 87C1 626: DISKERRORJ 87C1 7E8741 627: JMP DISKERROR 628: 87C4 629: DISKSAVEERRLSN; save RDSI:LSN in DCB 87C4 EE2B 630: LDX DSKINFD:SECTORDB, X 87C6 A603 631: LDAA RDSI:LSN+1, X 87C8 E604 632: LDAB RDSI:LSN+2, X 87C8 FE9013 633: LDX DISKINTDCB 87C9 673F 634: CLR DSKINFO:ERRLSN, X 87CF 6740 635: STAA DSKINFO:ERRLSN+1, X 87D1 1741 636: STAA DSKINFO:ERRLSN+2, X	,	•			DECB	619:	8787 5A
87BC 27E2				SEEKHOMEJ	BEQ	620:	8788 2704
87BE		* ?	•	#%00010000	BITA	621:	878A 8510
87BE 7E8720			B/ NOPE, TRY READ/WRITE AGAIN	SEEKDONEJ	BEQ	622:	87BC 27E2
87C1 626: DISKERRORJ 87C1 7E8741 627: JMP DISKERROR 628: 87C4 629: DISKSAVEERRLSN; save RDSI:LSN in DCB 87C4 EE2B 630: LDX DSKINFD:SECTORDB, X 87C6 A603 631: LDAA RDSI:LSN+1, X 87C8 E604 632: LDAB RDSI:LSN+2, X 87CA FE9013 633: LDX DISKINTDCB 87CD 6F3F 634: CLR DSKINFO:ERRLSN, X 87CF A740 635: STAA DSKINFO:ERRLSN+1, X 87D1 1741 636: STAA DSKINFO:ERRLSN+2, X					SEEKHOMEJ	623:	87BE
87C1 626: DISKERRORJ 87C1 7E8741 627: JMP DISKERROR 628: 87C4 629: DISKSAVEERRLSN; save RDSI:LSN in DCB 87C4 EE2B 630: LDX DSKINFD:SECTORDB, X 87C6 A603 631: LDAA RDSI:LSN+1, X 87C8 E604 632: LDAB RDSI:LSN+2, X 87CA FE9013 633: LDX DISKINTDCB 87CD 6F3F 634: CLR DSKINFO:ERRLSN, X 87CF A740 635: STAA DSKINFO:ERRLSN+1, X 87D1 1741 636: STAA DSKINFO:ERRLSN+2, X	,	1	GO SEE IF RE-SEEK HELPS	SEEKHOME	JMP	624:	87BE 7E8720
87C1 7E8741						625:	
87C4			•		DISKERRORJ	626:	8701
87C4				DISKERROR	JMP	627:	87C1 7E8741
87C4 EE2B	1 at 4.0	1.1.				628 :	1
87C4 EE2B	2 status	save disk	Sar Sar				87C4
87C8 EA04			(PSTCH	•			87C4 EE2B
87CA FE9013 633: LDX DISKINTDCB 87CD 6F3F 634: CLR DSKINFO:ERRLSN, X 87CF A740 635: STAA DSKINFO:ERRLSN+1, X 87D1 1741 636: STAA DSKINFD:ERRLSN+2, X				•			87C& A&O3
87CD 6F3F 634: CLR DSKINFO:ERRLSN, X 87CF A740 635: STAA DSKINFO:ERRLSN+1, X 87D1 1741 636: STAA DSKINFD:ERRLSN+2, X				·			
87CF A740 635: STAA DSKINFD:ERRLSN+1, X 87D1 27 41 636: STAA DSKINFD:ERRLSN+2, X							87CA FE9013
87D1 1741 636: STAN DSKINFD: ERRLSN+2, X	•					634:	87CD 6F3F
// 41.4 //	. /	•			STAA	635:	87CF A740
87D3 39 637: RTS	X		((200, 0))	DSKINFO: ERRLSN+2, X		635:	
	/\		- PULA		RTS 1	637:	8703 39
11.	,			\	i v		
· · · · · · · · · · · · · · · · · · ·				//			
lacksquare			•	1			
<i>T</i>	·			<i>T</i>			

	MAL/6800 1.3F; 01/14/83 11:39; IOVFD.ASM			*** SDOS 1/O driver *** CLOCK: DRIVER *	s for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS **: **
	8704	A39:	DISKREAD		
	87D4 FE9015	640:	LDX	DISKINTCCB	
,*	87D7 AD1B	641:	JSR	CCB:READSECTOR, X	
	8709 8087	642:		CHECKDISKREADY	
	87DB 2404	643:		DISKREAD1	B/ READY
	87DD 8D8B	644:		MAKEDISKREADY	MY INMINI
	87DF 20BF	645:	BRA	SEEKDONEJ .	
	WIDT LVDI	646:		SERVICE .	•
	87E1		DISKREAD1	,	
	87E1 851C	648:	BITA	#200011100	Is the read OK?
	87E3 260A	649:		DISKREAD4	B/ no
	87E5		DISKDONEJI	a - William I	
	87E5 6D4B	651:		FDCOMPLEMENT, X	complement data?
	87E7 2703	652:		DISKDONEJ	B/ ND
	87E9 BD87FB	653:	The second secon	DISKCOMPLEMENT	YES, COMPLEMENT DATA BEFORE WE QUIT!
	87EC		DISKDONEJ	Didiwon Chick	The Collination will be sin the Coll.
	87EC 7E8751	655:		DISKDONE	
		656:	***	#10N##	
	87EF		DISKREAD4	•	
	87EF A73A	658:	STAA	DSKINFO: READERRSTS, X	SAVE READ ERROR STATUS
	87F1 8DD1	659:	BSR	DISKSAVEERRLSN	save erroring LSN
	87F3 6C39	660:	,	DSKINFO: READERRONT+1, X	
	87F5 26BA	661:		DISKWRITES	MANILL II LIMIN MILLINING
	87F7 6C38	662:		DSKINFO: READERRONT, X	
	87F9 20B6	663:	BRA	DISKWRITE5	GO CHECK RETRY COUNT

*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** MAL/A800 1.3F: 87F9 SDDSDRIVERS *** CLOCK: DRIVER *** 01/14/83 11:39:33; Page 32; Form 1 IOVED.ASM 665: DISKCOMPLEMENT; COMPLEMENT SECTOR CONTENTS (FOR IBM 3740 FORMAT) 87FB DSKINFO:NBPS,X get sector size 87FB A609 666: LDAA DSKINFO: NBPS+1, X 667: LDAB 87FD E60A LDX DSKINFO:SECTORDB, X 87FF EE2B :866 MUST COMPLEMENT THE DATA FIRST RDSI:SECTORBASE, X 669: LDX 8801 EE05 TO OFFSET "DECA" BELOW ON 1st PASS INCA 8803 4C 670: 671: DISKCOMPL 8804 COMPLEMENT A BYTE 8804 6300 672: COM BUMP POINTER INX 673: 80 4088 COMPLEMENT A BYTE COM 0. X 674: 8807 6300 BUMP POINTER 675: INX 8809 08 COMPLEMENT A BYTE 880A 6300 676: COM 0,X BUMP POINTER 677: INX 80 2088 COMPLEMENT A BYTE COM 0, X 880D 6300 678: BUMP POINTER INX 679: 880F 08 = # BYTES LEFT TO COMPLEMENT SUBB 680: 8810 C004 BNE DISKCOMPL 8812 26F0 681: 8814 4A 682: DECA 683: BNE DISKCOMPL 8815 26ED LDX DISKINTDCB TO BE NICE TO CALLER 8817 FE9013 684: * RTS 685: 881A 39

01/14/83 11:39:33; Page 33; Form 1 IDVFD.ASM

Controller Primitives

687:	IF D	AMFLOPPY!	PERSC I	
688:	* 4	M FLOPPY	DISK HARDWARE	DEFINITIONS
689:				
690:		IF	PERSCI	
691:	PERSCI: PIACA	EQU	\$FFA0	
692:	PERSCI:PIACB	EQU	\$FFA1	
693:	PERSCI:PIADA	EQU	\$FFA2	DMA PAGE NUMBER
694:	PERSCI: PIADB	EQU	\$FFA3	drive select, misc. control
695:	PERSCI: WDCMDSTS	EQU	\$FFA4	COMMAND / STATUS REGISTER
696:	PERSCI: WDTRACK	EQU	\$FFA5	CURRENT TRACK REGISTER
697:	PERSCI: WDSECTOR	EQU	\$FFA6	TARGET SECTOR REGISTER
698:	PERSCI: WDDATA	EQU	\$FFA7	TARGET TRACK / DATA REGISTER
699:		FIN	PERSCI	
700:		٠		
701:	,	IF	DAMFLOR	РР
702:	DAMFLOPPY:PIACA	EQU	\$FF80	,
703:	DAMFLOPPY: PIACB	UQ3	\$FF81	•
704:	DAMFLOPPY:PIADA	EQU	\$FF82	DMA PAGE NUMBER
705:	DAMFLOPPY:PIADB	EQU	\$FF83	drive select, misc. control
706:	DAMFLOPPY: WDCMDS	TS EQU	\$FF84	COMMAND / STATUS REGISTER
707:	DAMFLOPPY: WDTRAC	K EQU	\$FF85	CURRENT TRACK REGISTER
708:	DAMFLOPPY: WDSECT	OR EQU	\$FF86	TARGET SECTOR REGISTER
709:	DAMFLOPPY: WDDATA	EQU	\$FF87	TARGET TRACK / DATA REGISTER
710:		FIN	DAMFLO	ррү
	688: 689: 690: 691: 692: 693: 694: 695: 696: 700: 700: 700: 703: 704: 705: 706: 707: 708: 709:	688: * M 689: 690: 691: PERSCI:PIACA 692: PERSCI:PIACB 693: PERSCI:PIADA 694: PERSCI:PIADB 695: PERSCI:WDCMDSTS 696: PERSCI:WDTRACK 697: PERSCI:WDDATA 699: 700: 701: 702: DAMFLOPPY:PIACA 703: DAMFLOPPY:PIACB 704: DAMFLOPPY:PIADB 706: DAMFLOPPY:WDCMDS 707: DAMFLOPPY:WDCMDS 707: DAMFLOPPY:WDCMDS 708: DAMFLOPPY:WDCMDS 709: DAMFLOPPY:WDDATA	688: * WM FLOPPY 689: 690: IF 691: PERSCI:PIACA EQU 692: PERSCI:PIACB EQU 693: PERSCI:PIADB EQU 694: PERSCI:PIADB EQU 695: PERSCI:WDCMDSTS EQU 696: PERSCI:WDTRACK EQU 697: PERSCI:WDTRACK EQU 697: PERSCI:WDDATA EQU 699: FIN 700: 701: IF 702: DAMFLOPPY:PIACB EQU 703: DAMFLOPPY:PIACB EQU 704: DAMFLOPPY:PIADB EQU 705: DAMFLOPPY:WDTRACK EQU 707: DAMFLOPPY:WDTRACK EQU 708: DAMFLOPPY:WDTRACK EQU 709: DAMFLOPPY:WDTRACK EQU 709: DAMFLOPPY:WDTRACK EQU	689:

MAL/6800 1.3F: 881A SDOSDRIVERS 01/14/83 11:39:33; Page 34; Form 1 IOVFD.ASM

1** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
Controller Primitives

	712:	FIN	DAMFLOPPY!PERSCI			
8818	713: COUN	TCOMMAND				•
8818 FE9013	714:	LDX	DISKINTDCB			i.
881E 6C3E	715:	INC	DSKINFO: OPSCOUNT+2, X	COUNT #	OPERATIONS	ISSUED TO FLOPPY
8820 2606	716:	BNE	WAITFORINTERRUPT			
8822 AC3D	717:	INC	DSKINFO: OPSCOUNT+1, X			•
8824 2602	718:	BNE	WAITFORINTERRUPT		,	
8826 6C3C	719:	INC	DSKINFO: OPSCOUNT, X			1
8828	720: WAIT	FORINTERR	UPT	,*	*	
8828 32	721:	PULA				
8829 33	722:	PULB				
882A, A744	723:	STAA	FDDSTATE, X			1
882C E745	724:	STAB	FDDSTATE+1,X			
882E 7E8E15	725:	JMP	SDOS+SDOS:RTI			

*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** MAL/6800 1.3F: 882E SDOSDRIVERS Controller Primitives 01/14/83 11:39:33; Page 35; Form 1 IOVFD. ASM 727: * Test if an actual seek is required. 728: 729: * If the drive number has not changed, and the cylinder (track) number 730: 1 has not changed, then no seek is necessary, and return is made with carry clear; otherwise, return is made with carry set and the 731: \$ 732: * previous cylinder number in the B register. 733: 734: * a side effect is that the values of FDCYL, FDTARGETCYL, and FDDRIVE are copied to the CCB, regardless of whether a seek is necessary 735: \$ 736: * (this ensures that the CCB is set up for a subsequent restore, read, 737: * or write) 738: 739: TESTFORSEEK 8831 CCB: DRIVE, X 8831 A604 740: LDAA 8833 FE9013 741: LDX DISKINTDCB 8836 A148 742: **CMPA** FDDRIVE, X 8838 2623 743: BNE DOSEEK 883A A649 744: LDAA FDCYL, X 883C EE2B 745: LDX DSKINFO: SECTORDB, X 746: CMPA RDSI:CYLINDER+1,X 883E A112 8840 261B 747: BNE DOSEEK 8842 FE9013 748: LDX DISKINTDCB 749: * BSR COPYDCBTOCCB 750: \$ OKRTS 751: 752: COPYDCBTOCCB 8845 FDDRIVE, X 8845 A648 753: LDAA 8847 36 754: **PSHA** 755: LDAB FDCYL, X 8848 E649 884A EE2B 756: LDX DSKINFO: SECTORDB, X 757: LDAA RDSI:CYLINDER+1,X 884C A612 884E FE9015 758: LDX DISKINTCCB 759: STAA CCB: CYL, X 8851 A705 8853 E706 760: STAB CCB: LASTCYL, X. 761: PULA 8855 32 8856 A704 762: STAA CCB: DRIVE, X DISKINTDCB LDX 8858 FE9013 763: 885B 0C39 764: **DKRTS** 765: 8850 766: DOSEEK; seek is required LDX 767: DISKINTDCB 885D FE9013 COPYDEBTOCEB 8860 BDE3 768: BSR 8862 OD39 749: ERRORRTS 770:

771:

0002

IF

PERSCI

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*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SDFTWARE DYNAMICS ***
MAL/6800 1.3F: 8862 SDOSDRIVERS
                                         PerSci Controller Primitives
01/14/83 11:39:33; Page 36; Form 1
IOVFD. ASM
                773: PERSCI:STATUS
 8864
8864 B6FFA4
                774:
                              LDAA
                                     PERSCI: WDCMDSTS
                              COMA
8867 43
                775:
8868 FE9013
                              LDX
                                     DISKINTDC8
                776:
                              RTS
8868 39
                777:
                778:
                779: PERSCI:RESTORE
  3888
                                                              get the drive address and add in
886C A604
                780:
                              LDAA
                                     CCB: DRIVE, X
                                     #200001000
                                                                slow step, read, no DMA
                 781:
                              ORAA
80A8 3&88
                              STAA
                                     PERSCI:PIAD8
8870 B7FFA3
                782:
                                     #(\%00000010)&$FF
                                                              restore
                              LDAA
8873 86FD
                 783:
  8875
                784: PERSCI: ISSUECOMMAND
                 785:
                              STAA
                                     PERSCI: WDCMDSTS
8875 B7FFA4
                              JMP
                                     COUNTCOMMAND
8878 7E881B
                786:
                 787:
                 788: PERSCI: ABORT
  887B
                 789: ; Note that the Series 2000 does something funny here; somebody should go look.
8879 862F
                 790:
                              LDAA
                                     #(\%11010000)&$FF
                                                              abort with no interrupts
                              STAA
                                     PERSCI: WDCMDSTS
887D B7FFA4
                 791:
                                                              wait about 30 uS for chip to settle
                              8SR
                                     PERSCI: ABORT. RTS
8880 8D0E
                 792:
                              BSR
8882 8DOC
                 793:
                                     PERSCI: ABORT. RTS
                              8SR
                                     PERSCI: ABORT. RTS
8884 8D0A
                 794:
8886 F6FFA4
                                                              return with status in B
                 795:
                              LDAB
                                     PERSCI: WDCMDSTS
                              COMB
8889 53
                 796:
                                                              clear possible interrupt
                              LDAA
                                     PERSCI:PIAD8
888A B6FFA3
                 797:
                              LDX
                                      DISKINTDCB
888D FE9013
                 798:
                 799: PERSCI:ABORT.RTS
  8890
8890 39
                 800:
                              RTS
                 801:
                 802: PERSCI:RESET
  8891
                                     #(\%11010001)&$FF
                                                              abort with interrupt
                 803:
                              LDAA
8891 862E
```

804:

8893 20E0

BRA

PERSCI: ISSUECOMMAND

MAL/6800 1.3F: 8893 SDOSDRIVERS *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** 01/14/83 11:39:33; Page 37; Form 1 PerSci Controller Primitives IOVFD. ASM 806: PERSCI:SETSEEK 8895 8895 209A 807: BRA TESTFORSEEK 808: 8897 809: PERSCI:SEEK CCB:DRIVE, X 8897 A604 810: LDAA 8899 B7FFA3 STAA PERSCI:PIADB 811: 889C A606 812: LDAA CCB:LASTCYL, X LDAB CCB:CYL,X 889E E605 813: 88A0 43 814: COMA STAA PERSCI: WDTRACK 88A1 B7FFA5 815: 88A4 53 COMB 816: PERSCI: WDDATA 88A5 F7FFA7 817: STAB 6368 8A88 818: LDAA #(\%00011001)&\$FF seek, Ioad head, no verify 88AA 20C9 819: BRA PERSCI: ISSUECOMMAND 820: 821: PERSCI: VERIFYSECTOR 88AC don't want either write or DMA!! 822: LDAA CCB: DRIVE, X 404A 3A88 STAA 88AE B7FFA3 823: PERSCI: PIADB 88B1 200E 824: BRA PERSCI:READSECTOR.2

MAL/6800 1.3F: 88B1 SDOSDRIVERS 01/14/83 11:39:33; Page 38; Form 1

*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***

PerSci	Controller	· Primiti	ves

01/14/83 11:39:	3 3; Pa	ge 38; Form 1	PerSci Controller	Primitives
10VFD.ASM	607.	PERSCI:READSEC	TAD	
8893	827:	CENSULI REHUSEU STAB		set DMA page number
88B3 F7FFA2 88B6 E604	828:	LDAB		set up controller for read, DMA
1	829:			are up continuent in the same
88B8 CA40			PERSCI:PIADB	•
88BA F7FFA3	830:	COMA	LEVOCTILIUND	
88BD 43	831:	STAA	PERSCI: WDSECTOR	set the sector number
88BE B7FFA6	832:	PERSCI: READSEC		Ser file treat, modern
8801		JSR	PERSCI:ABORT	load head, if necessary
88C1 BD887B	834:	LDAA		read sector
	835:			head load status
88C6 C520	836:	BNE		HEAU TOAU SECES
8808, 2602	837:			make the head load
88CA 8804	838:	EDRA		make the near 1000
3388		PERSCI:READSEC	PERSCI:ISSUECOMMAND	•
88CC 7E8875	840:	unr	LEKOCI: 1990ECONUMAN	e e
	841:	DEDAGT - UDTTERE	'ATAD	
88CF		PERSCI: WRITESE		set DMA page number
88CF F7FFA2	843:	STAB		ser huu hade urmpei
88D2 E604	844:		•	set up controller for write, DMA
88D4 CACO	845:		#X11000000	SEC th Courtainer for write? The
88D6 F7FFA3	846:	STAB	PERSCI:PIADB	
88D9 43	847:		nrnani unoreton	set the sector number
88DA B7FFA6	848:		,	
88DD BD887B	847:		PERSCI: ABORT	see if necessary to load heads write sector
88E0 8657	850:		#(\%10101000)&\$FF	Write Sector
88E2 C520	851:			
88E4 2602	852:		PERSCI: WRITESECTOR. 1	load the heads
88E6 8804	853:		#200000100	Indu fus usans
88E8		PERSCI: WRITESE		^
88E8 7E8875	855:		PERSCI: ISSUECOMMAND	
	856:		PERSCI	
0002	857:	IF.	DAMFLOPPY	

MAL/6800 1.3F: 88E8 SDOSDRIVERS *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** 01/14/83 11:39:33; Page 39; Form 1 DAM Floppy Controller Primitives IOVFD. ASM 859: DAMFLOPPY:STATUS 88EB 88EB B6FF84 :048 LDAA DAMFLOPPY: WDCMDSTS LDX 88EE FE9013 861: DISKINTDCB 88F1 39 . 862: RTS 863: 864: DAMFLOPPY: RESTORE 88F2 88F2 A604 865: LDAA CCB: DRIVE, X 88F4 97FF83 866: STAA DAMFLOPPY: PIADB 88F7 8602 867: LDAA #200000010 restore 848: DAMFLOPPY: ISSUECOMMAND 88F9 STAA DAMFLOPPY: WDCMDSTS 88F9 B7FF84 849: 870: JMP 88FC 7E881B COUNTCOMMAND 871: 872: DAMFLOPPY:ABORT 88FF 88FF 86D0 873: LDAA #%11010000 abort with no interrupts STAA DAMFLOPPY: WDCMDSTS 8901 B7FF84 874: wait about 30 uS for chip to settle 8904 8D0D 875: BSR DAMFLOPPY: ABORT.RTS BSR DAMFLOPPY: ABORT.RTS 8904 8D0B 876: 8908 8D09 877: BSR DAMFLOPPY: ABORT.RTS 890A F6FF84 878: LDAB DAMFLOPPY:WDCMDSTS return with status in B 879: LDAA DAMFLOPPY:PIADD clear possible interrupt 890D B6FF83 8910 FE9013 880: LDX DISKINTOCH 8913 881: DAMFLOPPY: ABORT.RTS 8913 39 882: 883: . 8914 884: DAMFLOPPY: RESET 885: 8914 86D1 LDAA #%11010001 abort with interrupt

8916 20E1

:488

BRA

DAMFLOPPY: ISSUECOMMAND

*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** MAL/6800 1.3F: B916 SDOSDRIVERS DAM Floppy Controller Primitives 01/14/83 11:39:33; Page 40; Form 1 IOVFD. ASM 888: DAMFLOPPY:SETSEEK B918 8918 7E8831 TESTFORSEEK 889: JMP 890: 891: DAMFLOPPY:SEEK 891B CCB: DRIVE, X 8918 A604 892: LDAA STAA DAMFLOPPY: PIADB 891D B7FF83 B93: 8920 A606 894: LDAA CCB:LASTCYL,X LDAB CCB: CYL, X 8922 E605 895: 8924 B7FF85 896: STAA DAMFLOPPY: WDTRACK STAB DAMFLOPPY: WDDATA 8927 F7FF87 897: seek, load head, 12 mS step, no verify #700011001 898: LDAA 892A 8619 DAMFLOPPY: ISSUECOMMAND BRA 892C 20CB 899: 900: 892E 901: DAMFLOPPY: VERIFYSECTOR LDAA DAMFLOPPY:PIADB turn off write, DMA 902: 892E B6FF83 903: ANDA #700101111 8931 842F STAA DAMFLOPPY: PIADB 8933 B7FF83 904: 8936 200D 905: BRA DAMFLOPPY: READSECTOR. 2

*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** MAL/6800 1.3F: 8936 SDDSDRIVERS DAM Floppy Controller Primitives 01/14/83 11:39:33; Page 41; Form 1 IOVFD.ASM 907: DAMFLOPPY: READSECTOR 8938 set DMA page number 8938 F7FF82 908: STA8 DAMFLOPPY: PIADA 909: LDAB CCB: DRIVE, X set up controller for read, DMA 8938 E604 read, DMA DRAB #201000000 893D CA40 910: 911: STA8 DAMFLOPPY: PIAD8 893F F7FF83 set the sector number 8942 B7FF86 912: STAA DAMFLOPPY: WDSECTOR 913: DAMFLOPPY:READSECTOR.2 8945 8945 8D88 914: BSR DAMFLOPPY: ABORT load head, if necessary LDAA read sector #%10000000 8947 8680 915: head load status 916: BITB #%00100000 8949 C520 917: BNE DAMFLOPPY: READSECTOR. 1 8948 2602 #200000100 make the head load 894D 8A04 918: DRAA 894F 919: DAMFLOPPY: READSECTOR. 1 DAMFLOPPY: ISSUECOMMAND 894F 7E88F9 920 JMP

*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** MAL/6800 1.3F: 894F SDOSDRIVERS DAM Floppy Controller Primitives 01/14/83 11:39:33; Page 42; Form 1 IOVFD.ASM 922: DAMFLOPPY: WRITESECTOR 8952 8952 F7FF82 923: STAB DAMFLOPPY: PIADA set DMA page number 924: LDAB CCB: DRIVE, X set up controller for write, DMA 8955 E604 ORAB #%11000000 8957 CACO 925: STAA DAMFLOPPY: WDSECTOR target sector 8959 B7FF86 926: 895C B6FF85 927: LDAA DAMFLOPPY: WDTRACK check if write pre-compensation needed CMPA #21 895F 8115 928: 8961 2802 929: BMI DAMFLOPPY: WRITESECTOR. 2 ORAB turn on write pre-compensation 8963 CA10 930: #%00010000 931: DAMFLOPPY:WRITESECTOR.2 8945 932: STAB DAMFLOPPY: PIADB 8965 F7FF83 see if necessary to load heads 8968 BD88FF 933: JSR DAMFLOPPY: ABORT 894B 86A0 934: LDAA #210100000 write sector BITB #%00100000 896D C520 935: 936: BNE DAMFLOPPY: WRITESECTOR. 1 896F 2602 load the heads 8971 8A04 937: ORAA #700000100 8973 938: DAMFLOPPY:WRITESECTOR.1

DAMFLOPPY: ISSUECOMMAND

DAMFLOPPY

8973 7E88F9

939:

940:

JMP

FIN

```
MAL/6800 1.3F: 8973 SDOSDRIVERS
                                        *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
                                        Virtual Flopov Driver Time-Out Routines
01/14/83 11:39:33; Page 43; Form 1
IOVFD. ASM
 0002
                942:
                            ĬF
                                   PERSCI
 8976
                943: PERSCI:TIMEOUT
                944:
8976 CE9017
                            LDX
                                   #CCB:PERSCI
 0002
                945:
                            IF
                                    DAMFLOPPY
8979 2003
                946:
                            BRA
                                   DISKTIMEOUT.
                947:
                948:
                            FIN
                                    DAMFLOPPY
                            FIN
                949:
                                    PERSCI
 0002
                950:
                            IF
                                    DAMFLOPPY
 897B
                951: DAMFLOPPY:TIMEOUT
897B CE9045
                952:
                            LDX
                                    #CCB: DAMFLOPPY
                953:
                           FIN
                                   DAMFLOPPY
 897E
                954: DISKTIMEOUT
897E FF9015
                955:
                            STX
                                   DISKINTCCB
                                                            save CCB address
8981 AD09
                956:
                             JSR
                                   CCB: STATUS, X
                                                            touch controller to keep drive going
                            LDX
8983 FE9015
                957:
                                   DISKINTCCB
8986 6A03
                958:
                            DEC
                                   CCB: TIMEOUT, X
                                                            COUNT OFF 1 SEC
                959:
                            BNE
8988 261F
                                   DISKTIMEOUT1
                                                            B/ TIMER NOT ZERO YET
                                                            point at DCB, again
898A EE2C
                960:
                            LDX
                                   CCB: CURRENTDCB, X
898C A600
               961:
                            LDAA
                                  DCB: DONEFLAG, X
898E 2631
                962:
                            BNE
                                                         .. B/ DISK IS DONE, GO AWAY
                                    DISKTIMEOUT2
                            IF
 0002
                963:
                                    DAMFLOPPY
                964: * should have code here to reset "load both heads" bit ??
                965:
                            FIN
8990 8604
                966:
                            LDAA
                                  #ERR: DEVICETIMEDOUT/256
8992 C612
                967:
                            LDAB
                                   #ERR: DEVICETIMEDOUT& FF
                968: DISKTIMEOUTERRORED : timeout detected an error
 8994
                                   DISKINTDOB
                                                           remember DCB address
8994 FF9013
                969:
                          STX
8997 A701
                970:
                            STAA
                                   DCB:LASTERROR,X
                                                            remember device error code
8999 E702
                971:
                            STAB
                                   DCB:LASTERROR+1,X
                972:
                            INC
                                                            MARK DISK AS 'DONE'
899B 6C00
                                    DCB: DONEFLAG, X
899D FE9015
                973:
                            LDX
                                                            point at 'controller busy' flag
                                   DISKINTCCB
                            INC
89A0 6C00
                974:
                                    CCB: BUSY. X
                                                            and make it unbusv
                975:
                            CLR
                                                            FORCE SEEK W/VERIFY ON NEXT READ/WRITE
89A2 6F04
                                   CCB: DRIVE. X
89A4 6A04
               976:
                            DEC
                                    CCB: DRIVE, X
89A6 7E875E
                977:
                            JMP
                                    DISKINTUNEXPECTED
                978:
 89A9
                979: DISKTIMEOUT1
                                   : (X) -> controller table
89A9 49
                980:
                            ROLA
                                                            save device ready status in carry
89AA EE2C
                981:
                            LDX
                                   CCB: CURRENTDCB. X
                                                            find DCB for device
                982:
                            LDAA
                                                            is device done ?
89AC A600
                                  DCB: DONEFLAG, X
                983:
                            BNE
                                                            b/ yes, just keep it spinning
89AE 2606
                                   DISKTIMEOUTIA
89B0 8604
                984:
                            LDAA
                                   #ERR: DEVICENOTREADY/256 assume the worst...
                985:
                            LDAB
89B2 C624
                                    #ERR: DEVICENOTREADY& $FF
                                    DISKTIMEOUTERRORED
89B4 25DE
                986:
                             BCS
                                                            b/ drive not ready after 1 second
                987: DISKTIMEOUTIA
 8984
8986 FE9015
                988:
                            LDX
                                    DISKINTCCB
8989 8600
                989:
                            LDAA
                                   #(1*TICKSPERSECOND+NTIMEOUTBLOCKS)/256
                990:
                            LDAB
                                   #(1*TICKSPERSECOND+NTIMEOUTBLOCKS)&*FF
89BB C645
                                                                     plant a 1-second fuse
                            STAA
89BD A726
                991:
                                   CCB:TIMEOUTBLK+TIMEOUT:FUSE.X
898F E727
                992:
                             STAB
                                   CCB: TIMEOUTBLK+TIMEOUT: FUSE+1, X
                993: DISKTIMEOUT2
 8901
                994:
                             JMP
                                    SDOS+SDOS:RTI
89C1 7EBE15
                995:
                            FIN
                                    IODRIVERBODY
```

996:

*** SDOS 1/0 drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** MAL/6800 1.3F: 89C1 SDOSDRIVERS Virtual Floppy Driver Time-Out Routines 01/14/83 11:39:33; Page 44; Form 1 IOVED.ASM 997: 411: FIN IF STORAGEDEMON 0001 412: 413: .IOSTOREDÉMON.ASM INCLUDE IODRIVERBODY . ÌF 0001

MAL/6800 1.3F: 89C1 SDOSDRIVERS *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** 01/14/83 11:39:33; Page 45; Form 1 *** THE SD STORAGE DEMON DRIVER *** IOSTOREDEMON. ASM DRIVES IM17710 WITH 7711 INTELLIGENT CONTROLLER... 4: * VIA A "VIA" (A WONDERFUL ROCKWELL PART) 5: 1 6: : EQUATES FOR WINCHESTER DRIVER ; 512 BYTES PER SECTOR (TRANSFER) 8: WDCNBPS EQU 0200 512 9: IFUND IMI7711 0001 10: EQU 0000 11: IMI7711 12: FIN TMI7711 0000 13: IF FIN 15: 16: 0001 IFUND IMI5007 17: 0 0000 18: IMI5007 EQU FIN 19: IF IMI5007 0000 20: mini-wini FIN 22: 23: TFUND WDCNSPT 0001 24: 4E34 25: WDCNSPT EQU 20020 DEFAULT TO 7710C FIN 26: 0001 EQU 1 27: WDCNTPC 28: WDCNCYL EQU 0001 1 0800 29: WDCFATAL EQU \$80 ; RETRY TYPE ERROR 30: EQU 0001 31: WDCFORMAT : FORMAT ENTIRE DISK COMMAND ; CONTROL READ COMMAND 0002 32: WDCREADCHD EQU 2 : CONTROL WRITE COMMAND 0003 33: WDCWRITECMD EQU 3 34: 35: WDCRETRY · EQU ; FAILURE RETRY COUNT 0005 36: 37: WINCHESTER DISK CONTROLLER DCB DEFINITIONS 38: * 39: \$ 8904 40: :: SET TACKS ON TO BOTTOM OF DISK INFO TABLE 0042 41: ORG DSKINFO: SIZE RMB 1 O IS READ, <>O IS WRITE 0042 0001 42: WDCREADWRITE DRIVE NUMBER 0043 0001 43: WDCDRIVE RMB 1 44: WDCSIZE EQU * 0044 8904 ORG 11 45:

*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SDFTWARE DYNAMICS *** MAL/6800 1.3F: 0043 SDOSDRIVERS *** THE SD STORAGE DEMON DRIVER *** 01/14/83 11:39:33; Page 46; Form 1 **IOSTOREDEMDN.ASM** 47: ; BRANCH TABLE POINTED TO BY DCB AND USED BY SDDS : ROUTINE TO CLEAR VIA SO ND INTERRUPTS 49: WDCDRIVER FDB WDCINIT 89C4 9E2C FDB WDCREAD : READ SINGLE SECTOR 50: 89C6 89E9 ; WRITE SINGLE SECTOR FDB WDCWRITE 51: 89C8 89E5 FDB WDCWAITDONE 89CA 8A22 52: SDOS HANDLES ALL THE DISK STATUSES NECESSARY ! FDB **ILLDEVICEOP** 89CC BEDB 53: : DISMOUNT OR FORMAT COMMAND FD8 WDCCDNTROL 89CE 89D0 55: #CC:DISMOUNTDISK 56: WDCCDNTROL : CMPA 89D0 CMPA #CC:DISMOUNTDISK 89D0 8111 57: B/ DISMOUNT, NOTHING SPECIAL NEEDED. BEQ **WDCOKRTS** 89D2 274C 58: : CMPA #CC: FORMAT 59: CMPA #CC:FDRMAT 89D4 8115 60: 8/ FDRMAT OPERATION BEQ WDCFORMATX 89D6 2703 62: :JMP ILLDEVICEDP JMP 89D8 7E8EDB 63: ILLDEVICEOP 8908 64: WDCFORMATX ;LDA **#WDCFORMAT** DO A "SECONDARY" FORMAT OPERATION LDAA #WDCFORMAT 89DB 8601 65: ;LDX DCBFOINTER 66: LDX DCBPOINTER 89DD DE06 67: ;STA WDCREADWRITE, X 68: 89DF A742 69: STAA WDCREADWRITE, X ; SET RETRY COUNT AT 1 ;LDA #1 70: LDAA #1 71: 89E1 8601 BRA WDCSETRETRY1 89E3 200C 72: 73: 74: WDCWRITE ;LDA #WDCWRITECMD 89E5 75: LDAA #WDCWRITECMD 89E5 8603 BRA WDCOPSET 89E7 2002 77: #WDCREADCMD 89E9 78: WDCREAD :LDA -79: LDAA #WDCREADCMD 89E9 8602 ; LDX DCBPOINTER 89EB 80: WDCDPSET FDX DCBPOINTER . 89EB DE06 81: WDCREADWRITE, X ; SET THE DPERATION :STA 82: STAA 83: WDCREADWRITE, X 89ED A742 : SET RETRY COUNT 84: :LDA #WDCRETRY LDAA **#WDCRETRY** 89EF 8605 85: 86: WDCSETRETRY1 ; ENTRY POINT FOR WDCFORMATX 89F1 WDCRETRYCHT ;STA 87: STAA **WDCRETRYCHT** 89F1 B7932D 88: 89: :CLR DCB: LASTERROR, X CLR DCB: LASTERROR, X 89F4 6F01 90: ; CLR DCB:LASTERROR+1,X 91: CLR DCB:LASTERROR+1,X 92: 89F6 6F02 #WDCINTERFACE ; WAIT FOR INTERFACE FREE ; LDX 93: #WDCINTERFACE 94: LDX 89F8 CE9325 ;LDA 0, 1 95: LDAA 0, X 89FB A600 96: 89FD 2603 97: BNE WDCSETUP ;JSR SDOS+SDOS: WAITEVENT 98: JSR SDOS+SDOS: WAITEVENT 89FF BDBE2A 99: :CLR WDCINTERFACE ; SET INTERFACE BUSY 100: WDCSETUP 8A02

CLR ·

8A02 7F9325

101:

WDCINTERFACE

	;LDX LDX STX ;CLR CLR ;LDX ;LDX ;LDX ;JSR ;LDX ;LDX ;LDX ;LDX ;LDX ;CMPA ;CMPA BEQ	#0 #0 #DCCONTINUEPC ; SET INTERRUPTS ND SOOD #WDCSTARTID #WDCSTARTIO SDOS+SDDS:STARTIO ; ENTER INTERRUPTS SERVICE CODE SDDS+SDOS:STARTIO DCBPOINTER ; IF FORMAT CONTROL CALL DPERATION DCBPOINTER WDCREADWRITE, X #WDCFCADWRITE, X #WDCFCRMAT #WDCFORMAT
	LDX STX ;CLR CLR ;LDX LDX ;LDX ;LDX ;JSR ;LDX LDX ;LDX ;LDA LDA ;CMPA	DCBPOINTER WDCDCBPDINTER; INTERRUPTS SERVICE DCB ADDRESS DCB:DONEFLAG, X; CLEAR DONE DCB:DONEFLAG, X #0 #0 WDCCONTINUEPC; SET INTERRUPTS ND SOOD #WDCSTARTID #WDCSTARTID SDOS+SDDS:STARTIO; ENTER INTERRUPTS SERVICE CODE SDDS+SDOS:STARTIO DCBPOINTER; IF FORMAT CONTROL CALL DPERATION DCBPOINTER WDCREADWRITE, X WWDCREADWRITE, X #WDCFORMAT #WDCFORMAT
	STX ;CLR ;CLR ;LDX ;LDX ;LDX ;JSR ;LDX ;LDX ;LDX ;LDA ;CMPA ;CMPA	WDCDCBPDINTER ; INTERRUPTS SERVICE DCB ADDRESS DCB:DONEFLAG, X ; CLEAR DONE DCB:DONEFLAG, X ; CLEAR DONE #0 #0 WDCCONTINUEPC ; SET INTERRUPTS ND SOOD #WDCSTARTID #WDCSTARTID SDOS+SDDS:STARTIO ; ENTER INTERRUPTS SERVICE CODE SDDS+SDOS:STARTIO DCBPOINTER ; IF FORMAT CONTROL CALL DPERATION DCBPOINTER WDCREADWRITE, X #WDCFORMAT #WDCFORMAT
	;CLR CLR ;LDX ;LDX ;LDX ;JSR ;JSR ;LDX ;LDX ;LDA LDAA ;CMPA	DCB:DONEFLAG, X ; CLEAR DONE DCB:DONEFLAG, X #0 #0 WDCCONTINUEPC ; SET INTERRUPTS ND SOOD #WDCSTARTID #WDCSTARTIO SDOS+SDDS:STARTIO ; ENTER INTERRUPTS SERVICE CODE SDDS+SDOS:STARTIO DCBPOINTER ; IF FORMAT CONTROL CALL DPERATION DCBPOINTER WDCREADWRITE, X WDCREADWRITE, X #WDCFORMAT #WDCFORMAT
	CLR ;LDX LDX STX ;LDX LDX ;JSR ;LDX LDX ;LDA LDAA ;CMPA	#0 #0 #DCCONTINUEPC ; SET INTERRUPTS ND SOOD #WDCCTARTID #WDCSTARTIO SDOS+SDDS:STARTIO ; ENTER INTERRUPTS SERVICE CODE SDDS+SDOS:STARTIO DCBPOINTER ; IF FORMAT CONTROL CALL DPERATION DCBPOINTER WDCREADWRITE, X #WDCFCADWRITE, X #WDCFCRMAT #WDCFORMAT
	;LDX LDX STX ;LDX LDX ;JSR ;LDX ;LDX ;LDA LDAA ;CMPA	#0 #0 WDCCONTINUEPC ; SET INTERRUPTS ND SOOD #WDCSTARTID #WDCSTARTIO SDOS+SDDS:STARTIO ; ENTER INTERRUPTS SERVICE CODE SDDS+SDOS:STARTIO DCBPOINTER ; IF FORMAT CONTROL CALL DPERATION DCBPOINTER WDCREADWRITE, X WDCREADWRITE, X #WDCFORMAT #WDCFORMAT
	LDX STX ;LDX ;DX ;JSR ;LDX LDX ;LDA ;CMPA CMPA	#O WDCCONTINUEPC ; SET INTERRUPTS ND SOOD #WDCSTARTID #WDCSTARTIO SDOS+SDDS:STARTIO ; ENTER INTERRUPTS SERVICE CODE SDDS+SDDS:STARTIO DCBPOINTER ; IF FORMAT CONTROL CALL DPERATION DCBPOINTER WDCREADWRITE, X WDCREADWRITE, X #WDCFORMAT #WDCFORMAT
	STX ;LDX LDX ;JSR JSR ;LDX LDX ;LDA LDAA ;CMPA	#WDCCONTINUEPC ; SET INTERRUPTS ND SOOD #WDCSTARTID #WDCSTARTIO SDOS+SDDS:STARTIO ; ENTER INTERRUPTS SERVICE CODE SDDS+SDOS:STARTIO DCBPOINTER ; IF FORMAT CONTROL CALL DPERATION DCBPOINTER WDCREADWRITE, X WWDCREADWRITE, X #WDCFORMAT #WDCFORMAT
	;LDX LDX ;JSR JSR ;LDX LDX ;LDA LDAA ;CMPA	#WDCSTARTID #WDCSTARTID SDOS+SDDS:STARTIO; ENTER INTERRUPTS SERVICE CODE SDDS+SDOS:STARTIO DCBPOINTER; IF FORMAT CONTROL CALL DPERATION DCBPOINTER WDCREADWRITE, X WDCREADWRITE, X #WDCFORMAT #WDCFORMAT
	LDX ;JSR JSR ;LDX LDX ;LDA LDAA ;CMPA	#WDCSTARTIO SDOS+SDDS:STARTIO; ENTER INTERRUPTS SERVICE CODE SDDS+SDOS:STARTIO DCBPOINTER; IF FORMAT CONTROL CALL DPERATION DCBPOINTER WDCREADWRITE, X WDCREADWRITE, X #WDCFORMAT #WDCFORMAT
: :: :: :: :: :: ::	; JSR JSR ; LDX LDX ; LDA LDAA ; CMPA	SDOS+SDOS:STARTIO; ENTER INTERRUPTS SERVICE CODE SDDS+SDOS:STARTIO DCBPOINTER; IF FORMAT CONTROL CALL DPERATION DCBPOINTER WDCREADWRITE,X WDCREADWRITE,X #WDCFORMAT #WDCFORMAT
: : : : : :	JSR ;LDX LDX ;LDA LDAA ;CMPA CMPA	SDDS+SDOS:STARTIO DCBPOINTER ; IF FORMAT CONTROL CALL DPERATION DCBPOINTER WDCREADWRITE,X WDCREADWRITE,X #WDCFORMAT #WDCFORMAT
1 1 1 1 1 1 1	;LDX LDX ;LDA LDAA ;CMPA CMPA	DCBPOINTER; IF FORMAT CONTROL CALL DPERATION DCBPOINTER WDCREADWRITE, X WDCREADWRITE, X #WDCFORMAT #WDCFORMAT
: : : :	LDX ;LDA LDAA ;CMPA CMPA	DCBPOINTER WDCREADWRITE, X WDCREADWRITE, X #WDCFORMAT #WDCFORMAT
: : :	LDAA CMPA CMPA	WDCREADWRITE,X #WDCFORMAT #WDCFORMAT
: :	LDAA CMPA CMPA	WDCREADWRITE,X #WDCFORMAT #WDCFORMAT
: :	CMPA	#WDCFDRMAT
:		
	RED	MARKATER BY BY THE THE BERLET BOTO STREET BOTO
	Pre	WDCWAITDONE B/ 80 WAIT FOR FORMAT OPERATION COMPLETE
: WDCOKRTS	OKRTS	· · ·
1		•
: WDCWAITDONE	;LDX	DCBPDINTER, ; WAIT FOR TRANSFER DONE
	LDX	
	;LDA	·
		·
		WDCWAIT1
):		
	;LDX	
		DCBPOINTER
1	•	· ·
		DCB:LASTERRDR, X
	BEQ	WDCOKRTS
	•	
	JMP	ERRETX
45 67 6 1 2 3 4 5 6	3: WDCWAITDONE 4: 5: 6: 7: 8: 7: 0: WDCWAIT1 1: 2: 3: 4: 6:	A: LDX 5: ;LDA 6: LDAA 7: BNE 8: ;JSR 7: JSR 0: WDCWAIT1 ;LDX 1: LDX 2: ;LDX 3: LDX 4: BEQ 5: ;JMP 6: JMP

MAL/6800 1.3F: 8A34 SDOSDRIVERS *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** *** THE SD STORAGE DEMON DRIVER *** 01/14/83 11:39:33; Page 48; Form 1 IOSTOREDEMON.ASM 139: * VIA REGISTER DEFINITIONS 0001 140: IFUND CONRAC 0000 141: CONRAC EQU FIN 142: CONRAC 0000 143: IF 145: FIN 0000 146: IFUND WAVEMATE 148: FIN 149: IF WAVEMATE 0001 EQU \$FF40 FF40 150: STORAGEDEMONVIA 151: FIN 0001 ". 152: IFUND EXORCISOR EQU 0000 153: EXORCISOR FIN 154: IF EXORCISOR 0000 155: 157: FIN 158: 0001 159: IF CONRAC!WAVEMATE!EXORCISOR 160: VIAPCR EQU STORAGEDEMONVIA+\$C ; CONTROL REGISTER FF4C 161: VIAIFR EQU VIAPCR+1 ; INTERRUPT FLAG FF4D : INTERRUPT ENABLE VIAIFR+1 162: VIAIER EQU FF4E 163: EQU STORAGEDEMONVIA+\$0 : DATA REGISTERS FF40 164: VIADRB FF41 165: VIADRA EQU VIADRB+1 166: VIADDRB EQU VIADRA+1 FF42 VIADDRB+1 ; DATA DIRECTION REGISTERS 167: VIADDRA EQU FF43 VIADDRA+1 168: VIATILL EQU FF44 ; INTERVAL TIMER HIGH BYTE 169: VIATICH EQU VIAT1LL+1 FF45 FF46 170: VIATILLA EQU VIATICH+1 171: VIATILH EQU VIATILLA+1 FF47 172: STORAGEDEMONVIA+\$B : AUXILIARY CONTROL REGISTER - USED FOR CLOCK EQU 173: VIAACR FF4B 174: * STORAGEDEMONVIA+\$F : PORT A - NO HANDSHAKE CONTROL 175: VIADRAF EQU FF4F 176: 177: FIN WMSERIES2000 0001 178: IFUND 179: WMSERIES2000 EQU 0000 180: FIN

IF

FIN

0000

181: 203: WMSERIES2000

WMSERIES2000

WITH ITS INVERTED I/O ADDRESS LINES (YUK!)

MAL/6800 1.3F:	8A34 SDOSDRIVERS	*** SD0	S I/O drivers fo	WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
01/14/83 11:39			SD STORAGE DEMO	
IOSTOREDEMON. A	SM			GOING FILM
8A36	205: WDCRESET	;CLR	VIADDRA	MAKE PAO SIDE OF VIA DE AN "INPUT" PORT
8A36 7FFF43	204:	CLR	VIADDRA	
	207:	;LDA	#%11011010	; WATCH FOR READY AND ABUSDIR= + (GOING HIGH)
8A39 86DA	208:	LDAA	#%11011010	
	209:	;STA	VIAPCR	; VIA PROG CONTROL REG
BA3B B7FF4C	210:	STAA	VIAPCR	
	211:	;LDA	VIADRA	; ISSUE STROBE SO READY PULSE CAN BE SEEN
BASE B6FF41	212:	LDAA	VIADRA	
	213:	;LDX	#(20000\$2)//8	; PULSE CB2 FOR 20Ms. AS PER 7711 RESET SPECIFICATION
8A41 CE1388	214:	LDX	#(20000#2)//8	
8A44 09	215: WDCRESETLP	DEX		; WAIT LONG ENDUGH FOR PULSE
8A45 26FD	216:	BNE	WDCRESETLP	
	217:	;LDA	#200010010	; RESET INTERRUPT BITS
8A47 8612	218:	LDAA	#700010010	
· · · · · · · · · · · · · · · · · · ·	219:	;STA	VIAIFR .	; ACK INTERRUPTS THAT MIGHT ACCIDENTALLY BE PENDING
8A49 B7FF4D	220:	STAA	VIAIFR	(assume IMI verpose east use back this text!)
,	221:	;STA	VIAIER	; AND CLEAR THE INTERRUPT ENABLE
8A4C B7FF4E	222:	STAA	VIAIER	
	223:	;LDA	#711111010	•
8A4F 86FA	224:	LDAA	#711111010	
	225:	;STĂ	VIAPCR	; STOP PULSE, LEAVE CA2 IN "PULSE ON R/W"
8A51 B7FF4C	226:	STAA	VIAPER \	
8A54 OC39	227:	OKRTS	1	r ·
		•	1	
				· ·

pch 4 = 0 catcher (B1 +

= 1 - b

watch for CB1 4

MAL/6800 1.3F: BA54 SDOSORIVERS 01/14/83 11:39:33; Page 50; Form 1 *** SOOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***

*** THE SD STORAGE DEMON ORIVER ***

IOSTOREDEMON.A	SM		
	229: ; FEED THE WINCH 230:	IESTER A CO	DMMAND
8A56	231: WDCFORMSERVJ	;JMP	WOCFORMSERV ; GO HANDLE "FORMAT" COMMAND
BA56 7E8B3B	232:	JMP	WDCFORMSERV
	233:		
8A59	234: WDCREADSERVJ	; JMP	WDCREADSERV ; GO DO READ SECTOR LOGIC
8A59 7E8B4F	235:	JMP	WDCREADSERV
	236:		•
8A5C	237: WDCSTARTIO	EQU	CONTROL TRANSFERS HERE TO START DISK 1/0
BASC OE	238: WDCCMDFEED	CLI	; RE-ENABLE INTERRUPTS
	239:	; LDX	WDCDCBPOINTER
BA5D FE9326	240:	LDX	WDCDCBPOINTER
8A60 6C3E	241:	INC	DSKINFO: DPSCOUNT+2, X
8A62 2606	242:	BNE	WDCCMDFEEDO
8A64 6C3D	243:	INC	DSKINFO:OPSCOUNT+1,X
BA66 2602	244:	BNE	WDCCMDFEEDO
8A68 6C3C	245:	INC	DSKINFO: OPSCOUNT, X
AAA8	246: WDCCMDFEEDO	; JSR	
8A6A B08C1E	247:	JSR	WDCWAITAVAILABLE
	248:	; LDX	WDCOCBPOINTER
8A6D FE9326	249:	LDX	
	250:	;LDA	
8A70 A642	251:	LDAA	· · ·
	252:	;JSR	WDCOUTDATA ; OUTPUT COMMAND BYTE
BA72 BD8BE0	253:	JSR	WDCOUTDATA
	254:	;LVA	WDCDRIVE, X ; DRIVE SELECT
8A75 A643	255:	LDAA	WDCDRIVE, X
2444 252554	256:	; JSR JSR	WDCOUTDATA WDCOUTDATA
8A77 BD8BE0	257:		WDCREAOWRITE,X ; CHECK IF FORMAT COMMAND
74 A 147	258:	, LDA LDAA	
8A7A A642	259:	;CMPA	
0470 0404	260:	CMPA	·
8A7C 8101	261: 262:	BEQ	•
8A7E 27D6 8A80	263: WDCCMDFEED1	PER	DSKINFO: SECTORDB, X
8A80 EE2B	264:	LDX	
DHOV CETD	265:	;LDA	•
8A82 A604	266:	LDAA	RDS1:LSN+2,X
GRUZ HUVT	267:	;JSR	WDCOUTDATA ; DISK ADDRESS DUT
8A84 B08BE0	268:	JSR	WDCOUTOATA
Ollo: Doadto	269:	;LDA	RDSI:LSN+1,X ; AND HIGH BYTE LOGICAL DISK ADDRESS
BA87 A603	270:	LDAA	RDSI:LSN+1,X
oner neve	271:	;JSR	WDCOUTDATA
8A89 BD8BE0	272:	JSR	WDCOUTDATA
	273:	;LDX	WOCDCBPOINTER
8A8C FE9326	274:	ĹDX	WDCDCBPOINTER
	275:	;LDA	WDCREADWRITE, X
8A8F A642	276:	LOAA	WDCREADWRITE, X
	277:	;CMPA	#WDCREADCHO
8A91 8102	278:	CMPA	#WDCREADCHD `
8A93 27C4	279:	BEQ	WDCREADSERVJ ; GO DO READ TRANSFER AND CHECK

*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** MAL/6800 1.3F: 8A93 SDOSDRIVERS *** THE SO STORAGE DEMON DRIVER *** 01/14/83 11:39:33; Page 51; Form 1 IOSTOREDEMON.ASM 281: ; WRITE TRANSFER SECTION ; WRITE A SECTOR TO 7710 8A95 283: WDCWRITESERV ; SET X = PAGE ADR 284: :JSR WDCSET4TRANS JSR WOCSET4TRANS 8A95 BD8D01 285: : SET VIA TO DUTPUT MODE (AND SET UP 255 CYCLE COUNTER) 286: ;LDA #\$FF 287: LDAA #\$FF 8A98 86FF 288: ;STA VIADDRA ; SO AS TO OUTPUT A 512 BYTE SECTOR STAA VIADDRA 8A9A B7FF43 289: : WAIT FOR 1ST DATA REQUEST 290: WOCWRITEWAIT1ST 8A9D 8A9D F5FF4D BITB FIRST DATA REQUEST ARRIVE ? 291: VIAIFR 8AA0 2608 292: BNE WOCWRITELOOP B/ YES, GIVE THE 7710 ITS DATA INX ND, DELAY AWHILE (???? Us. MAX) 8AA2 08 293: 294: DEX 8AA3 09 DOWN COUNT FUSE - DECA 295: 8AA4 4A BNE WDCWRITEWAITIST B/ MORE TIME TO WAIT 8AA5 26F6 296: FUSE EXPIRED, SO DO WE! 297: :JMP WDCQUIET1 8AA7 7E8B31 298: JMP WDCQUIET1 299: ; OUTPUT BYTES LOOP, OPTIMIZED FOR SPEED! 300: WDCWRITELOOP AAA8 GET POINTER TO NEXT BLOCK OF 8 BYTES 301: :LDX WDCPOINTER 8AAA FE932B LOX WDCPDINTER 302: 303: :LDA , X : FETCH BYTE TO FEED TO CONTROLLER 004A DAA8 304: LDAA 0. X BITB ; IS 7710 READY FOR NEXT BYTE ? 8AAF F5FF4D 305: VIAIFR DNE WDCWRITEO B/ USUAL CASE, 7710 IS READY FOR ANOTHER 306: 8A82 2602 SIGH... GO WAIT FOR 7710 TO BE READY BSR WDCWRITEWAIT 8AB4 BD&E 307: : OUTPUT DATA BYTE AND ISSUE STROBE 8A86 308: WDCWRITEO :STA VIADRA 8AB6 B7FF41 309: STAA VIAORA 1, X ; FETCH BYTE TO FEED TO CONTROLLER 310: :LDA 311: LDAA 1, X 8AB9 A601 ; IS 7710 READY FOR NEXT BYTE ? BITB VIAIFR 8ABB F5FF40 312: B/ USUAL CASE, 7710 IS READY FOR ANOTHER 8ABE 2602 . 313: BNE WDCWRITE1 BSR WDCWRITEWAIT SIGH... GO WAIT FOR 7710 TO BE READY 8ACO 8D62 -314: 315: WDCWRITE1 ;STA VIADRA ; OUTPUT DATA BYTE AND ISSUE STROBE BAC2 STAA VIADRA 8AC2 97FF41 316: ; FETCH BYTE TO FEED TO CONTROLLER ;LDA 2, % 317: 8AC5 A602 318: LDAA 2, X ; IS 7710 READY FOR NEXT BYTE ? 8AC7 F5FF40 319: BITB VIAIFR B/ USUAL CASE, 7710' IS READY FOR ANOTHER 8ACA 2602 320: BNE WDCWR1TE2 SIGH... 60 WAIT FOR 7710 TO BE READY BACC BD56 321: BSR WDCWRITEWAIT ; OUTPUT DATA BYTE AND ISSUE STROBE 322: WDCWRITE2 ;STA VIADRA 8ACE VIADRA STAA BACE B7FF41 323: ;LDA 324: 3, X : FETCH BYTE TO FEED TO CONTROLLER 325: LDAA 8AD1 A603 3,X 8AD3 F5FF4D 326: BITB VIAIFR : IS 7710 READY FOR NEXT BYTE ? B/ USUAL CASE, 7710 IS READY FOR ANOTHER 327: BNE 8AD6 2602 WDCWRITE3 SIGH... GO WAIT FOR 7710 TO BE READY 328: BSR WDCWRITEWAIT 8AD8 8D4A ; DUTPUT DATA BYTE AND ISSUE STROBE 329: WDCWRITE3 :STA VIADRA 8ADA STAA VIADRA 8ADA B7FF41 330: : FETCH BYTE TO FEED TO CONTROLLER 331: ;LDA 4.X 8ADD A604 332: LDAA 4, X ; IS 7710 READY FOR NEXT BYTE ? **BADF F5FF4D** 333: BITB VIAIFR B/ USUAL CASE, 7710 IS READY FOR ANOTHER 334: BNE 8AE2 2602 WDCWRITE4

BAE4 BD3E

335:

BSR

WOCWRITEWAIT

SIGH... GO WAIT FOR 7710 TO BE READY

MAL/6800 1.3F:	: 8AE4 SDOSDRIVERS	*** SD	OS I/O drivers f	or WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
01/14/83 11:39	9:33; Page 52; Form 1	*** TH	E SD STORAGE DEM	ON DRIVER ***
IOSTOREDEMON.	ASM `		•	**
8AE6	336: WDCWRITE4	;STA	VIADRA	; OUTPUT DATA BYTE AND ISSUE STROBE
8AE6 B7FF41	337:	STAA	VIADRA	
	338:	;LDA	5, X	; FETCH BYTE TO FEED TO CONTROLLER
8AE9 A605	339:	LDAA	5, X	· · · · · · · · · · · · · · · · · · ·
8AEB F5FF4D	340:	BITB	VIAIFR	; IS 7710 READY FOR NEXT BYTE ?
8AEE 2602	341:	BNE	WDCWRITES	B/ USUAL CASE, 7710 IS READY FOR ANOTHER
8AF0 8D32	342:	BSR	WDCWRITEWAIT	SIGH GO WAIT FOR 7710 TO BE READY
8AF2	343: WDCWRITE5	;STA	VIADRA	; OUTPUT DATA BYTE AND ISSUE STROBE
8AF2 B7FF41	344:	STAA	VIADRA	' Carlotte de la car
	345:	;LDA	6, X	; FETCH BYTE TO FEED TO CONTROLLER
8AF5 A606	346:	LDAA	6, X	
8AF7 F5FF4D	347:	BITB	VIAIFR .	; IS 7710 READY FOR NEXT BYTE ?
8AFA 2602	348:	BNE	WDCWRITEA	B/ USUAL CASE, 7710 IS READY FOR ANOTHER
8AFC 8D26	349:	BSR	WDCWRITEWAIT	SIGH GO WAIT FOR 7710 TO BE READY
8AFE	350: WDCWRITE6	;STA	VIADRA	; OUTPUT DATA BYTE AND ISSUE STROBE
8AFE B7FF41	351:	STAA	VIADRA	
	352:	;LDA	7 , X	; FETCH BYTE TO FEED TO CONTROLLER
8B01 A607	353:	LDAA	7 , X	·
8B03 F5FF4D	354:	BITB	VIAIFR	; IS 7710 READY FOR NEXT BYTE ?
9B06 2602	355:	BNE	WDCWRITE7	B/ USUAL CASE, 7710 IS READY FOR ANOTHER
8B08 8D1A	356:	BSR	WDCWRITEWAIT	SIGH GO WAIT FOR 7710 TO BE READY
8B0A	357: WDCWRITE7	;STA	VIADRA	; OUTPUT DATA BYTE AND ISSUE STROBE
8B0A B7FF41	358:	STAA	VIADRA	
	359:	;LDA	WDCPOINTER+1	ADVANCE POINTER BY 8 BYTES
880D B6932C	360:	LDAA	WDCPOINTER+1	
9B10 9B08	361:	ADDA	#8	
	362:	;STA	WDCPOINTER+1	
8B12 B7932C	363:	STAA	WDCPOINTER+1	
8B15 2403	364:	BCC	WDCWRITED	B/ UPPER HALF DOES NOT NEED MODIFICATION
8817 7C932B	365:	INC	WDCPOINTER	PROPAGATE CARRY TO UPPER HALF
8B1A 7A932A	366: WDCWRITED	DEC	WDCCOUNT	DOWN COUNT NUMBER OF 8 BYTE BLOCKS TO SEND
8B1D 268B	367:	BNE	WDCWRITELOOP	B/ MORE 8 BYTE BLOCKS TO WRITE
	368:	;CLR	VIADDRA	; MAKE VIA PORT AN INPUT PORT WHEN DONE
8B1F 7FFF43	369:	CLR	VIADDRA	
8B22 2017	370:	BRA	WDCFORMSERV	GO WAIT FOR 7710 TO FINISH OPERATION

	8B22 SDOSDRIVERS	*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
	:33; Page 53; Form 1	*** THE SD STORAGE DEMON DRIVER ***
IOSTOREDEMON.A		WATE CON 2740 TO BE BEARW FOR WEST DUTE
8824	372: WDCWRITEWAIT	; WAIT FOR 7710 TO BE READY FOR NEXT BYTE
8824 36	373:	PSHA ; SAVE THE DATA BYTE TO SEND
8B25 4F	374:	CLRA ; SET TIMEDUT LIMIT IN (A)
8B26 F5FF4D	375: WDCWRITEWAITLOOP	BITB VIAIFR ; LOOK AGAIN
8824 590F	3/6:	BNE WDCWRITEWAITEXIT; B/ FINALLY, IS READY!
8B2B 4A	377:	DECA DOWN COUNT FUSE
8B2C 26F8	378:	BNE WDCWRITEWAITLOOP B/ SOME FUSE STILL LEFT
8B2E 31	379:	INS BANG! TIME'S UPPOP DATA BYTE TO BE SENT
8B2F	380: WDCQUIETERR	; 7710 DID NOT RESPOND IN REASONABLE LENGTH OF TIME
	381:	;LEAS 2,S POP RETURN ADDRESS
0000	382:	IF 2<0
	385:	ELSE
0002	384:	RPT 2
882F 31	387:	INS
	388:	FIN
8B31	389: WDCQUIET1	; INI DRIVE DID NOT RESPOND IN REASONABLE TIME
	390:	JSR WDCRESET ; MAYBE HITTING BELOW THE BELT WILL RE-SYNCH
8B31 BD8A36	391:	JSR WDCRESET
	392:	;LDA #X1001111 ; PICK UP VERY FUNNY ERROR STATUS
8B34 864F	393:	LDAA #7.1001111
	374:	; JMP WDCFATALO ; GO STORE ERROR AND RETRY
8834 7E8C8E	395:	JMP WDCFATALO
	396:	,
8839 32	397: WDCWRITENAITEXIT	PULA ; GET THE DATA BYTE BACK
883A 39	398:	RTS
	399:	
8B3B	400: WDCFORMSERV	EQU *
	401:	; JSR WDCWAIT4INT ; GO START INTERRUPT FOR COMMAND DONE
8838 BD8C3C	402:	JSR WDCWAIT4INT
	403:	; JSR WDCINDATA ; CHECK DONE STATUS
883E BD8C07	404:	JSR WDCINDATA
	405:	; JSR WDCPROCST ; GO CHECK STATUS RETURN 1F OK
8841 BD8C84	406:	JSR WDCPROCST
8B4 ⁴	407: WDCDONE	EQU #
2211	408:	;LDX WDCDCBPOINTER
8844 FE9326	409:	LDX WDCDCBPOINTER
8B47 6C00	410:	INC DCB:DDNEFLAG,X ; SET DONE
8849 7C9325	411:	INC WDCINTERFACE; INTERFACE DONE
	412:	; JMP SDOS+SDOS: RESCHEDULE
8B4C 7EBE18	413:	JMP SDOS+SDOS:RESCHEDULE
este (betalist		

Cant optimize x for for 7711

MAL/6800 1.3F: 8B4C SDOSDRIVERS 01/14/83 11:39:33; Page 54; Form 1

*** SDDS I/D drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***

*** THE SD STDRAGE DEMON DRIVER ***

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T	nr.	rnnı	-nr	MINI	ASM.
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IDSTOREDEMDN.	ASM		
	415: ; READ TRANSFER	SECTION	
8B4F	**	;JSR	WDCWAITAINT ; WAIT FDR 7710 INTERRUPT ON READ COMPLETE
884F 8D8C3C	418:	JSR	WDCWAITAINT
	417:	;JSR	WDCINDATA ; GET STATUS DN BUS
8852 BD8C07	420:	JSR	WDCINDATA
ODGE DEGGO!	421:	;JSR	WDCPRDCST ; GO PRDCESS STATUS RETRY IF NEEDED
8855 BD8C84	422:	JSR	WDCPRDCST
	423:	;JSR	WDCSET4TRANS
8858 BD8D01	424:	JSR	WDCSET4TRANS
8B58	425: WDCREADLDDP		BYTES FOR SECTOR LDOP, DPTIMIZED FOR SPEED
4200	426:	LDX	WDCPOINTER ; GET POINTER TO NEXT BLOCK OF 8 BYTES
8858 FE932B	427:	LDX	WDCPDINTER
885E F5FF4D	428:	8118	VIAIFR ; IS ANDTHER DATA SYTE READY ?
8861 2602	429:	BNE	WDCREADO B/ DATA IS READY
8843 8D4E	430:	8SR	
8865	431: WDCREADO	;LDA	
8B65 86FF41	432:	LDAA	VIADRA
0003 001171	433:	;STA	,X ; SAVE DATA IN SECTOR BUFFER
8868 A700	434:	STAA	Q, X
886A F5FF4D	435:	8118	VIAIFR ; IS ANDTHER DATA BYTE READY ?
8B6D 2602	436:	BNE	WDCREAD1 B/ DATA IS READY
886F 8D62	437:	BSR	,
8871	438: WDCREAD1	;LDA	
8871 B6FF41	439:	LDAA	VIADRA
00/1 006641	440:	;STA	1, X ; SAVE DATA IN SECTOR SUFFER
8874 A701	441:	STAA	1, X
8876 F5FF4D	442:	BITB	VIAIFR ; IS ANOTHER DATA BYTE READY ?
8B79 2602	443:	BNE	WDCREAD2 B/ DATA IS READY
8878 8056	444:	BSR	WDCREADWAIT ; GO WAIT FOR 7710 READY WITH ANOTHER BYTE
8B7D	445: WDCREAD2	;LDA	VIADRA ; READ DATA AND ISSUE ACKNOWLEDGE PULSE
887D 86FF41	446:	LDAA	VIADRA
CO/U DOFF41	447:	;STA	2,X ; SAVE DATA IN SECTOR BUFFER
CATA ADDD	448:	STAA	
8B80 A702 8B82 F5FF4D	449:	SITB	2,X VIAIFR ; IS ANOTHER DATA SYTE READY ?
8885 2602	450:	BNE	WDCREAD3 8/ DATA IS READY
	451:	BSR	WDCREADWAIT ; GO WAIT FDR 7710 READY WITH ANOTHER BYTE
8887 8D4A	452: WDCREAD3		VIADRA ; READ DATA AND ISSUE ACKNOWLEDGE PULSE
8889 8889 86FF41	432: WDCRCHD3 453:	;LDA LDAA	VIADRA , KEND DATA AND 1330E AGRAGATED TO THE VIADRA
0007 006741	454:	;STA	3,X ; SAVE DATA IN SECTOR BUFFER
8B8C A703	455:	STAA	3,X
8B8E F5FF4D	456:	BITB	VIAIFR ; IS ANOTHER DATA BYTE READY ?
8891 2602	457:	BITE BNE	WDCREAD4 B/ DATA IS READY
8871 2002 8893 8D3E	458:	BSR	WDCREADWAIT ; 60 WAIT FDR 7710 READY WITH ANOTHER BYTE
	430: WDCREAD4		VIADRA : READ DATA AND ISSUE ACKNOWLEDGE PULSE
8895		;LDA LDAA	VIADRA , NERD BHIH HAB 1230E HERMONEEDGE (GEGE
8895 B6FF41	460:		
*****	461: ***	;STA	·
8898 A704	462:	AATE BTI8	4,X VIAIFR ; IS ANOTHER DATA BYTE READY?
889A F5FF4D	463:		WDCREADS B/ DATA IS READY
8B9D 2602	464:	BNE	
889F 8D32	465:	BSR .	
88A1	466: WDCREAD5	;LDA	VIADRA ; READ DATA AND ISSUE ACKNOWLEDGE PULSE VIADRA
8BA1 86FF41	467:	LDAA .gta	
መውጨል ለማለም	468:	;STA	
88A4 A705	469:	STAA	5, X

MAI /ARAA 1	3F: 88A6 SDOSDRIV	FRG 111 GN	ng I/N drivers for	WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
	1:39:33; Page 55; F		E SD STORAGE DEMO	
IOSTOREDEM				
8886 F5FF41		BITB	VIAIFR	; IS ANDTHER DATA BYTE READY ?
88A9 2602	471:	BNE -	WDCREAD6	B/ DATA IS READY
88AB 8D26	472:	BSR	WDCREADWAIT	; GD WAIT FOR 7710 READY WITH ANOTHER SYTE
B8AD	473: WDCREADA	5 ;LDA	VIADRA	; READ DATA AND ISSUE ACKNOWLEDGE PULSE
8BAD B6FF4	474:	LDAA	VIADRA	
•	475:	;STĀ	6, X	; SAVE DATA IN SECTOR SUFFER
88B0 A706	476:	STAA	6, X	
8882 F5FF4	477:	BITS	VIAIFR	; IS ANDTHER DATA SYTE READY ?
8885 2602	478:	BNE '	WDCREAD7	B/ DATA IS READY
8887 8D1A	479:	8SR	WDCREADWAIT	; GD WAIT FOR 7710 READY WITH ANOTHER BYTE
8889	480: WDCREAD7	•	VIADRA	; READ DATA AND ISSUE ACKNOWLEDGE PULSE
8889 B6FF4		LDAA	VIADRA	
·	482:	;STA	•	; SAVE DATA IN SECTOR BUFFER
88BC A707	483:	STAA	7, X	
	484:	;LDA	WDCPDINTER+1	; ADVANCE BUFFER POINTER BY 8
88BE 86932		LDAA	WDCPOINTER+1	
8BC1 8B08	486:	ADDA	#8	
	487:	;STA	WDCPOINTER+1	
8BC3 B7932		STAA	WDCPDINTER+1	O / ROBET HARE TO DIME HOREO HALE
8BC6 2403	487:	328 200	WDCREADD	8/ DON'T HAVE TO BUMP UPPER HALF
8BC8 7C932		INC Dec	WDCPOINTER	DOWN COUNT # DF 8 BYTE BLOCKS TO SEND
8BCB 7A932 8BCE 268B	A 491: WDCREADI 492:	NE SNE	WDCCOUNT WDCREADLOOP	DAME COOK! & OL O DILE OFORY IN STAN
ODLE 2000	472: 493:	:JMP	WDCDONE	ALL DONE READING SECTOR !
88D0 7E884		JMP	WDCDONE	ALL DORL MENDING DECIDIN .
0000 / 000	495:	VIII	MULDUILL	
8903	496: WDCREAD	101T • WATT	EDR 7710 TO BE R	EADY TO GIVE US NEXT BYTE
88D3 4F	497:	CLRA	100 1110 10 00 00	CHAI IS CAYE OF HEAT BITE
88D4 F5FF4			VIAIFR	; WAIT FOR READY SIGNAL
80D7 2606	499:	BNE		B/ 7710 IS NOW READY
8BD9 4A	500:	DECA		TIMED OUT ?
88DA 26F8	501:	BNE	WDCREADWAITLDOP	
	502:	;JMP ·		TIMED OUT, SOMETHING'S WRONG!
8BDC 7E8B2		JMP	WDCQUIETERR	,
	504:		,	
8BDF 39	505: WDCREAD	WAITRTS RTS		

```
*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
MAL/6800 1.3F: 8BDF SDOSDRIVERS
                                        *** THE SD STORAGE DEMON DRIVER ***
01/14/83 11:39:33; Page 56; Form 1
IOSTOREDEMON. ASM
                                        WDCDUTDATA --- SEND (A) TO 7710 WHEN 7710 READY
                507: *
                                                 USED ONLY FOR PARAMETER BYTES
                508: *
                509: $
                                        EQU
                                                 *
                510: WDCOUTDATA
  8BE0
                                                                 ; SELECT VIA MODE = OUTPUT
                                                 #$FF
                511:
                                         ;LDB
                                                 #$FF
8BEO CAFF
                512:
                                         LDAB
                513:
                                         ;STB
                                                 VIADDRA
                                                 VIADDRA
8BE2 F7FF43
                                         STAB
                514:
                                                                 ; OUTPUT THE DATA, DON'T ISSUE PULSE (YET)
                515:
                                         ;STA
                                                 VIADRAF
                                         STAA
                                                 VIADRAF
8BE5 B7FF4F
                516:
                                         CLRA
                                                                 ; SET A LONG FUSE
                517:
8BE8 4F
                                                                 ; IS 7710 READY?
                                                 VIAIFR
  BBE9
                518: WDCOUTDATAL
                                         :LDB
                                        LDAB
                                                 VIAIFR
8BE9 F6FF4D
                519:
                520:
                                         BITB
                                                 #%00000010
89EC C502
                                         BNE
                                                 WDCOUTDATA1
                                                                 ; YES
                521:
8BEE 2606
                                                                 : NO. DOWN COUNT FUSE
                522:
                                         DECA
8BFO 4A
                                         BNE
                                                 WDCOUTDATAL
88F1 26F6
                523:
                524:
                                         :JMP
                                                 WDCQUIETERR
                525:
                                         JMP
                                                 WDCQUIETERR
8BF3 7E8B2F
                526:
                527: WDCOUTDATA1
                                         EQU
  8BF6
                                                                 : WATCH FOR BUSDIR GOING LOW
                                         ;LDB
                                                 #211111010
                528:
                                                 #%11111010
8BF6 C6FA
                529:
                                         LDAB
                530:
                                         ;STB
                                                 VIAPCR
                                         STAB
                                                 VIAPER
8BF8 F7FF4C
                531:
                                         ;LDB
                                                 #%00010010
                532:
                                         LDAB
                                                 #700010010
8BFB C612
                533:
                                                                 ; SEE WDCWRITE1 FOR COMMENTS
                                         ;STB
                                                 VIAIFR
                534:
8BFD F7FF4D
                535:
                                         STAB
                                                 VIAIFR
                                         ;LDA
                                                 VIADRA
                                                                 ; ISSUE STROBE PULSE TO 7710
                536:
                                         LDAA
                                                 VIADRA
8C00 B6FF41
                537:
                                                                 ; RESTORE VIA PORT TO INPUT MODE FOR SAFETY
                                         ;CLR
                                                 VIADDRA
                538:
                                         CLR
                                                 VIADDRA
8C03 7FFF43
                 539:
                540:
                                         RTS
8C05 39
```

S42: \$ WDCINDATA GET (A) FROM 7710 WHEN 7710 IS READY			33; Page 57; Form 1	*** THE	SD STORAGE DEMO	
SA1: \$ ASSERT: VIADDRA=O HERE SA5:			542: *	WDCINDA	TA GET (A) F	ROM 7710 WHEN 7710 IS READY
S45: SC07 546: WDCINDATA EQU #			543: #	USED ON	LY TO READ STATU	S FROM 7710
SEC7 546: WDCINDATA EQU #			544: *	ASSERT:	VIADDRA=O HERE	
SCO7 4F			545:			
SCO8 548: WDCINDATAO LDB VIAIFR STATUS STATUS		8C07	546: WDCINDATA	EQU	*	
SCOR FAFFAD 549: LDAB		8C07 4F	547:			
8CDB C502 550: BITB #X00000010 8COD 2606 551: BNE WDCINDATA1 8COF 4A 552: DECA 8C10 26F6 553: BNE WDCINDATA0 ; B/ SDME MORE TIME LEFT 554: ;JMP WDCQUIETERR 8C12 7E8B2F 555: JMP WDCQUIETERR 8C12 7E8B2F 555: JMP WDCQUIETERR 556: 557: WDCINDATA1 EQU \$; 7710 IS READY WITH DATA FOR US 558: ;LDB #X11101010 ; WATCH FDR IFACTIVE GDING HIGH 8C15 C6EA 559: LDAB #X11101010 560: ;STB VIAPCR 8C17 F7FF4C 561: STAB VIAPCR 0000 562: IF CDNRAC ??????? WHY ?????? 565: FIN CDNRAC 566: ;LDA VIADRA ; GET STATUS, ACKNOWLEDGE 'READY' SIGNAL 8C1A B6FF41 567: LDAA VIADRA		8008	548: WDCINDATAO	;LDB	VIAIFR	; IS 7710 READY WITH DATA?
### BCOD 2606		8C08 F6FF4D	549:			
### BCOF 4A		8C0B C502	550:	BITB	#%00000010	,
### BC10 26F6		8COD 2606	551:	BNE	WDCINDATA1	
S54: JMP WDCQUIETERR S55: JMP WDCQUIETERR S56: S56: WDCINDATA1 EQU 7710 IS READY WITH DATA FOR US 558: JDB #X11101010 WATCH FOR IFACTIVE GOING HIGH S60: STB VIAPCR S60: STB VIAPCR S60: STAB VIAPCR S60: STAB VIAPCR S65: JDA VIAPCR S65: FIN CONRAC 7?????? WHY 7????? S65: FIN CONRAC S66: JDA VIADRA GET STATUS, ACKNOWLEDGE 'READY' SIGNAL SC1A B6FF41 S67: LDAA VIADRA S6TATUS, ACKNOWLEDGE 'READY' SIGNAL S6TATUS, ACKNOWLEDGE 'READY' S1GNAL S6TATUS S		8COF 4A				
8C12 7E8B2F		8C10 26F6	553:			; B/ SOME MORE TIME LEFT
S56: S57: WDCINDATA1 EDU	,	•	554:	•		
8C15		8C12 7E8B2F		JMP	- WDCQUIETERR	
S58:			556:			•
8C15 C6EA 559: LDAB #X11101010 560: ;STB VIAPCR 8C17 F7FF4C 561: STAB VIAPCR 0000 562: IF CDNRAC ??????? WHY ?????? 565: FIN CDNRAC 566: ;LDA VIADRA ; GET STATUS, ACKNOWLEDGE 'READY' SIGNAL 8C1A B6FF41 567: LDAA VIADRA		8C15	557: WDCINDATA1	EBN		•
560: ;STB VIAPCR 8C17 F7FF4C 561: STAB VIAPCR 0000 562: IF CDNRAC ??????? WHY.????? 565: FIN CDNRAC 566: ;LDA VIADRA ; GET STATUS, ACKNOWLEDGE 'READY' SIGNAL 8C1A B6FF41 567: LDAA VIADRA				•		; WATCH FOR IFACTIVE GDING HIGH
8C17 F7FF4C 561: STAB VIAPCR 0000 562: IF CONRAC ??????? WHY ?????? 565: FIN CONRAC 566: ;LDA VIADRA ; GET STATUS, ACKNOWLEDGE 'READY' SIGNAL 8C1A B6FF41 567: LDAA VIADRA		8C15 C6EA				
0000 562: IF CDNRAC ??????? WHY ?????? 565: FIN CDNRAC 566: ;LDA VIADRA ; GET STATUS, ACKNOWLEDGE 'READY' SIGNAL 8C1A B6FF41 567: LDAA VIADRA				•		
565: FIN CONRÁC 566: ;LDA VIADRA ; GET STATUS, ACKNOWLEDGE 'READY' SIGNAL 8C1A B6FF41 567: LDAA VIADRA		8C17 F7FF4C			*.	· · · · · · · · · · · · · · · · · · ·
566: ;LDA VIADRA ; GET STATUS, ACKNOWLEDGE 'READY' SIGNAL 8C1A B6FF41 567: LDAA VIADRA		0000				??????? WHY ??????
8C1A B6FF41 567: LDAA VIADRA						A PARTY OF THE PAR
				•		; GET STATUS, ACKNOWLEDGE 'READY' SIGNAL
8C1D 39 568: WDCWAITRTS RTS					VIADRA	
		8C1D 39	568: WDCWAITRTS	RTS		

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*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
MAL/A800 1.3F: 8C1D SDOSDRIVERS
                                       *** THE SD STORAGE DEMON DRIVER ***
01/14/83 11:39:33; Page 58; Form 1
IOSTOREDEMON.ASM
                                       WDCWAITAVAILABLE -- WAIT FOR 7710 READY
               570: #
                571: *
               572: WDCWAITAVAILABLE EQU
 8C1E
                                               0088M
                                       IF
  0001
                573:
                                               #(2*2500//256)*(1000//(4+2+2+4+2+4)) = 2.5 SECONDS AT 2MHZ
                                       :LDX
               574:
                                               #(2*2500//256)*(1000//(4+2+2+4+2+4))
                                       LDX
8C1E CE0460
                575:
                                       ELSE
                                               (M6809)
 0003
               576:
                                       FIN
               580: WDCWAITAVAILABLELOOP; WAIT AT MOST 2.5 SECONDS FOR DRIVE TO BE READY
 8C21
                                               VIAIFR
                                        :LDB
                581:
                                       LDAB
                                               VIAIFR
8C21 F4FF4D
               582:
                                                               CHECK: IS 7710 READY AND *BUS.DIR HIGH ?
                                               #700010010
                                        ANDB
8C24 C412
                583:
                                        : CMPB
                                               #200010010
                                                               ...?
                584:
                                        CMPB
                                                #700010010
8C26 C112
               585:
                                                               ; B/ 7710 IS READY
                                        BEQ
                                               WDCWAITRTS
8C28 27F3
               584:
                                                               NO. DOWN COUNT LOWER 8 BITS OF FUSE
                                        DECA
                587:
BC2A 4A
                                               WDCWAITAVAILABLELOOP B/ FUSE NOT BURNED UP
                                        BNE
8C2B 26F4
                588:
                                                                DOWN COUNT UPPER 16 BITS OF FUSE
8C2D 09
                587:
                                        DEX
                                                WDCWAITAVAILABLELOOP
                                        DNE
8C2E 26F1
                590:
                                                                THROW RETURN ADDRESS AWAY
                                        ;LEAS 2,S
                591:
                                        IF
                                                2(0 ...
  0000
                592:
                                        ELSE
                595:
                                                2 -
  0002
                594:
                                        RPT
                                        INS
                597:
8030 31
                                        FIN
                598:
                                                WDCRESET
                                                               TRY TO GET DRIVE'S ATTENTION
                                        :JSR
                599:
                                        JSR
                                                WDCRESET
8C32 BD8A36
                600:
                                                #ERR: DEVICENOTREADY DECLARE DEVICE NOT READY
                                        :LDD
                601:
                602:
                                        LDAB
                                                #(ERR:DEVICENOTREADY)&$FF
8C35 C624
                                        LDAA
                                                #(ERR: DEVICENOTREADY)/256
8C37 8604
                603:
                                                WDCQUITWITHERR GO STORE ERROR CODE IN DCB
                                        ;JMP
                604:
                                        JMP
                                                WDCQUITWITHERR
8C39 7E8CE8
                605:
```

BCSC BOT BORNATIANT BUIL BUIL BORNATIANT BUIL BUI	01/14/83 11:39 IOSTOREDEMON./	· ·	*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** *** THE SD STORAGE DEMON DRIVER ***
### STATE CASE OF A 101	8C3C		
SCIS 01	artr to		·
BC3F 01			
SCAP			· ·
SCA4 F79329			·
SCAS P79329	OPOL AL		
SCA B79328 S15	9PAN 570770		
SCA F F F F F S C P			
BC49 FE9334	0643 0/7320		·
BC49 A642	OCAL FERTAL		
BC49 A642	0640 FE7320		•
CAPP ANDCEDRMAT STANDARD SEC MAIT	0040 A/40		
SCAS BIOL C21:	0644 H047		
BYE	anan mini		·
SC4F CE0000 624:			
DC4F (DE0000 A24;	804D 2605		
SC52 2003 6251	ante		
8C54 627; MDCWAIT4INT2 EBU # #53TICKSPERSECOND+NTIMEOUTBLOCKS 628; LDX #53TICKSPERSECOND+NTIMEOUTBLOCKS 630; MDCWAIT4INT3 STX MDCTIMEOUTCOUNT MDCCONTINUEOUTBLOCKS 631; LDB #110010000 SET VIA INTERRUPT ON #BUSDIR GDING HIGH MDCCONTINUEOUTBLOCKS MDCCONTINUEOUT			.0
SC54			BRA WDCWAIT4INT3
C28:	*		
8C54 CE0135 629: LDX \$5\$TICKSPERSECOND+NTIMEOUTDLOCKS 8C57 FF93C2 A30: MDCNAIT4INT3 STX MDCTIMEOUTCDUNT A53: ;LDB \$710010000 ; SET VIA INTERRUPT ON *BUSDIR GOING HISH 8C5A C690 A32: LDBA \$710010000 ; SET VIA INTERRUPT ON *BUSDIR GOING HISH 8C5C F7FF4E A34: STAB VIAIER ; SET VIA INTERRUPT ON *BUSDIR GOING HISH 8C5B A6FAD A34: STAB VIAIER ; SDRIVE DONE WITH TRANSFER? 8C5A 26510 A37: BITA *VA00010000 ? 8C6A 28510 A37: BNE MDCINTERRUPT BY YES (THIS CODE HERE TO SIMPLIFY SINGLESTEPPING) 8C6A 640: JAP SDDS+SDDS:RTI ; EXIT INTERRUPT SERVICE 8C6A 7EBELS A40: JAP SDDS+SDDS:RTI ; EXIT INTERRUPT SERVICE 8C6A F593C2 A42: MDCINTERRUPT ; LDX #DCTINEDUTCOUNT; ; KILL THE INTERRUPT ENABLE 8C6F C610 A45: ; LDX #DCTINEDUTCOUNT; ; KILL THE INTERRUPT ENABLE 8C71 F7FF4E A48: STAB <td>8C54</td> <td></td> <td></td>	8C54		
SC57 FF93C2	,		
SC5			
SC5A C690	8C57 FF93C2		
SCSC F7FF4E	*		· · · · · · · · · · · · · · · · · · ·
Star	8C5A C690		LDAB #7.10010000
State Stat		633:	;STB VIAIER .
SC5F 86FF4D 636: LDAA VIAIFR \$200010000 ?	8C5C F7FF4E	634:	STAB VIAIER
Star	×	635:	;LDA VIAIFR ; IS DRIVE DONE WITH TRANSFER ?
BC64 2603 639; MDCINTUNEXPECTED JMP SDDS+SDDS;RTI FXIT INTERRUPT SERVICE SEXIT INTERRUPT SEXIT INTERRUPT SERVICE SEXIT INTERRUPT SEXIT I	8C5F 86FF4D	636:	LDAA VIAIFR
SC66	8C42 8510	637:	BITA #200010000?
8C66 7EBE15	8064 2603	638:	BNE WDCINTERRUPT B/ YES (THIS CODE HERE TO SIMPLIFY SINGLESTEPPING)
8C69	8066	639: WDCINTUNEXPECTED	;JMP SDOS+SDOS:RT1 ; EXIT INTERRUPT SERVICE
BC69	8C66 7EBE15	640:	JMP SDOS+SDOS:RTI
### ### ##############################		. 441:	
BC69 CE0000 643:	8069	642: WDCINTERRUPT	;LDX #0
### ### ##############################	8C49 CE0000	643:	
BC6F C610	8C4C FF93C2	644:	STX WDCTIMEDUTCOUNT; CLEAR TIME OUT
BC6F C610		645:	;LDB #%00010000 ; KILL THE INTERRUPT ENABLE
SC71 F7FF4E 648: STAB	8C6F C610	646:	
8C71 F7FF4E 648: STAB VIAIER 649: ;LDX WDCCONTINUEPC 8C74 FE9328 650: LDX WDCCONTINUEPC 651: ;LDD #WDCINTUNEXPECTED RESET WHERE TO GO IF INTERRUPT 8C77 C666 652: LDAB #(WDCINTUNEXPECTED)&FF 8C79 868C 653: LDAA #(WDCINTUNEXPECTED)/256 654: ;STD WDCCONTINUEPC 8C78 F79329 655: STAB WDCCONTINUEPC+1 8C72 B79328 656: STAA WDCCONTINUEPC 8C81 OE 657: CLI ; RE ENABLE INTERRUPTS - SO FLOPPY AND RTC CAN WORK 658: ; JMP 0, X ; RETURN TO CALLER			
SC74 FE9328 SO2:	8C71 F7FF4E		·
8C74 FE9328	1		
451:	8C74 FE9328		
8C77 C666 652: LDAB #(WDCINTUNEXPECTED)& FF 8C79 868C 653: LDAA #(WDCINTUNEXPECTED)/256 654: ;STD WDCCONTINUEPC 8C7B F79329 655: STAB WDCCONTINUEPC+1 8C7E B79328 656: STAA WDCCONTINUEPC 8C81 0E 657: CLI ; RE ENABLE INTERRUPTS - SO FLOPPY AND RTC CAN WORK 658: ;JMP 0, X ; RETURN TO CALLER	,		·
8C79 868C	8C77 C666		
STA STA WDCCONTINUEPC STAB WDCCONTINUEPC+1 STAB WDCCONTINUEPC+1 STAB WDCCONTINUEPC STAB WDCC			
8C7B F79329			
8C7E B79328 454: STAA WDCCONTINUEPC 8C81 0E 457: CLI ; RE ENABLE INTERRUPTS - SO FLOPPY AND RTC CAN WORK 458: ; JMP 0, X ; RETURN TO CALLER	8C7B F79329		
8C81 OE 457: CLI ; RE ENABLE INTERRUPTS - SO FLOPPY AND RTC CAN WORK 458: ; JMP 0,X ; RETURN TO CALLER			
658: ;JMP 0,X ; RETURN TO CALLER			
	8082 AE00		
		~ 	

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*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
MAL/6800 1.3F: 8C84 SDOSDRIVERS
                                         *** THE SD STORAGE DEMON DRIVER ***
01/14/83 11:39:33; Page 60; Form 1
IOSTOREDEMON. ASM
                                                                 PROCESS STATUS BITS
8C84 4D
                661: WDCPROCST
                                        TSTA
                                                 WDCPROCSTOKRTS B/ NO TROUBLE AT ALL
8085 2706
                662:
                                         BEQ
                                        BSR
                                                 WDCSAVESTATUS OOPS, HAD SOME KIND OF PROBLEM
                663:
8C87 8D1D
                                                                 WAS ERROR FATAL ?
                664:
                                         BITA
                                                 #WDCFATAL
8089 8580
                                        BNE
                                                 WDCFATALERR
                                                                 B/ YES
                665:
8089 2605
                666: WDCPROCSTOKRTS
                                         RTS
                                                                 NON-FATAL ERROR, CONTINUE
8C8D 39
                667:
8C8E 8D16
                668: WDCFATALO
                                         BSR
                                                 WDCSAVESTATUS
                                                 WDCFATAL2.
BC90 2002
                669:
                                         BRA
                670:
                                                                 ; POP RETURN OFF STACK
                                                 2,8
  8092
                671: WDCFATALERR
                                         :LEAS
  0000
                672:
                                         IF
                                                 2(0
                675:
                                         ELSE
                                         RPT
  0002
                676:
                                         INS
8C92 31
                677:
                678:
                                         FIN
                                         DEC
                                                                 ; ALL 9 LIVES USED UP ?
8C94 7A932D
                679: WDCFATAL2
                                                 WDCRETRYCNT
8C97 273D
                :084
                                         BEQ
                                                 WDCQUIT
                                                                 ; B/ YES, WE'RE DEAD
                                         :LDA
                                                 WDCRETRYCHT
                                                                 ON PENULTIMATE RETRY ?
                681:
                                         LDAA
                                                 WDCRETRYCHT
                682:
8C99 B6932D
                                                 #1
                683:
                                         : CMPA
                684:
                                         CMPA
8090 8101
                                                 #1
8C9E 2603
                685:
                                         BNE
                                                 JWDCCMDFEED
                                                                 B/ NO. JUST SEND COMMANDS AGAIN
                                         :JSR
                                                                 ; ON LAST TRY, HIT BELOW THE BELT
                                                 WDCRESET
                :686
                                         JSR
                                                 WDCRESET
8CAO BD8A36
                687:
                                         :JMP
                                                 WDCCMDFEED
                688: JWDCCMDFEED
  8CA3
                                         JMP
                                                 WDCCMDFEED
8CA3 7E8A5C
                689:
                690:
                691: WDCSAVESTATUS
                                         :LDX
                                                 WDCDCBPOINTER ; SAVE ERROR STATUS
  8CA4
                                         LDX
                                                 WDCDCBPOINTER
8CA6 FE9326
                692:
                                                 DSKINFO:SECTORDB, X SAVE RDSI:LSN AS DSKINFO:ERRLSN
                                         :LDX
                693:
                                                 DSKINFO: SECTORDB, X
8CA9 EE2B
                694:
                                         LDX
                695:
                                         ;LDB
                                                 RDSI:LSN,X
                                                 RDSI:LSN.X
8CAB E602
                696:
                                         LDAB
                                         ;PSHD
                                                                 SAVE ERROR STATUS BYTE, UPPER 8 BITS OF LSN
                697:
                                         PSHB
8CAD 37
                698:
                699:
                                         PSHA
8CAE 36
                700:
                                         ;LDD
                                                 RDSI:LSN+1,X
                                         LDAB
                                                 (RDSI:LSN+1)+1,X
8CAF E604
                701:
8CB1 A603
                702:
                                         LDAA
                                                 RDSI:LSN+1.X
                                         :LDX
                                                 WDCDCBPOINTER
                703:
                                         LDX
                                                 WDCDCBPOINTER
8CB3 FE9326
                704:
                                         :STD-
                705:
                                                 DSKINFO: ERRLSN+1, X
8CB6 E741
                706:
                                         STAB
                                                  (DSKINFO:ERRLSN+1)+1,X
                                         STAA
                                                 DSKINFO: ERRLSN+1.X
8CB8 A740
                707:
                                                                  RESTORE ERROR STATUS BYTE, UPPER 8 BITS OF LSN
                                         ;PULD
                708:
                                         PULA
8CBA 32
                709:
                                         PULB
8CBB 33
                710:
                                         :STB
                                                 DSKINFO: ERRLSN. X
                711:
                                         STAB
                                                 DSKINFO: ERRLSN, X
 8CBC E73F
                712:
                713:
                                         :LDB
                                                 WDCREADWRITE, X
                                         LDAB
                                                 WDCREADWRITE, X
 8CBE E642
                714:
                                                                  IS THIS A READ OR A WRITE COMMAND ?
                                         :CMPB
                                                 #WDCREADCMD
                715:
                 716:
                                         CMPB -
                                                  #WDCREADCMD
 8CC0 C102
                                         BEQ
                                                 WDCSAVEREADSTATUS
8CC2 2709
                717:
```

			4. γ
MAL/6800 1.3F	: BCC2 SDOSDRIVERS	111 SD	OS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
	9:33; Page 61; Form 1		E SD STORAGE DEMON DRIVER ***
IOSTOREDEMON.			
	718:	;STA	DSKINFO:WRITEERRSTS,X; LAST WRITE (OR FORMAT) ERROR STATUS
8CC4 A736	719:	STAA	DSKINFO: WRITEERRSTS, X
8006 6035	720:	INC	DSKINFO:WRITEERRCNT+1,X; 2 BYTE ERROR COUNT
8CC8 2602	721:	BNE	WDCSAVEWRITESTATUS1
	722:	INC	DSKINFO: WRITEERRCNT, X
8CCC	723: WDCSAVEWRITESTATU	Si	
8CCC 39	724:	RTS	
	725:		· · · · · · · · · · · · · · · · · · ·
BCCD	726: WDCSAVEREADSTATUS	;STA	DSKINFO:READERRSTS,X ; LOG LAST READ ERROR
8CCD A73A	727:	STAA	DSKINFO: READERRSTS, X
8CCF_6C39	728:	INC	DSKINFO: READERRONT+1, X
8CD1 2602	729:	BNE	WDCSAVEREADSTATUS1
8CD3 6C38	730:	INC	DSKINFO: READERRENT, X
8CD5	731: WDCSAVEREADSTATUS	1	·
8CD5 39	732:	RTS	·
			•

.

```
MAL/6800 1.3F: 8CD5 SDOSDRIVERS
                                         *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
01/14/83 11:39:33; Page 62; Form 1
                                         *** THE SD STORAGE DEMON DRIVER ***
IOSTOREDEMON. ASM
                                                                 A TIMEOUT IN MIDDLE OF TRANSFER ?
  8CD6
                734: WDCQUIT
                                         :CMPA
                                                 #210011111
BCD6 819F
                735:
                                         CMPA
                                                 #210011111
8CD8 2718
                736:
                                         BEQ
                                                 WDCTIMEDOUT1
                                                                 B/ YES, LET THE USER KNOW!
                737:
                                         :CMPB
                                                #WDCREADCMD
8CDA C102
                738:
                                         CMPB
                                                 #WDCREADCMD
8CDC 2706
                739:
                                         BEQ
                                                 WDCQUITREAD
                740:
                                         :LDD
                                                 #ERR: DISKWRITE
8CDE C616
                741:
                                         LDAB
                                                 #(ERR:DISKWRITE)&$FF
8CE0 8604
                742:
                                         LDAA
                                                 #(ERR:DISKWRITE)/256
8CE2 2004
                743:
                                         BRA
                                                 WDCQUITWITHERR
                744:
                745: WDCQUITREAD
  8CE4
                                         :LDD
                                                 #ERR: DISKREAD
                746:
8CE4 C615
                                         EDAB
                                                 #(ERR:DISKREAD)%$FF
8CE6 8604
                747:
                                         LDAA
                                                 #(ERR:DISKREAD)/256
                748: WDCQUITWITHERR
  8CE8
                                         :LDX
                                                 WDCDCBPOINTER JUST TO BE SAFE...
8CE8 FE9326
                                         LDX
                                                 WDCDCBPOINTER
                750:
                                         ;STD
                                                 DCB: LASTERROR, X
8CEB E702
                751:
                                         STAB
                                                 (DCB:LASTERROR)+1,X
8CED A701
                752:
                                         STAA
                                                 DCB:LASTERROR, X
                753:
                                         ;JMP
                                                 WDCDONE
8CEF 7E8B44
                754:
                                         JMP
                                                 MDCDONE
                755:
                756: WDCTIMEDOUT
  8CF2
                                         EQU
  8CF2
                757: WDCTIMEDOUT1
                                         ;LDX
                                                 #WDCINTUNEXPECTED REMEMBER THAT WE DON'T EXPECT AN INTERRUPT!
                758:
8CF2 CE8C66
                                         LDX .
                                                 #WDCINTUNEXPECTED
8CF5 FF9328
                759:
                                         STX
                                                 WDCCONTINUEPC
                760:
                                         :JSR
                                                 WDCRESET
                                                                 ; HIT HIM SO MAYBE HE WILL WAKE UP
8CF8 BD8A36
                761:
                                         JSR
                                                 WDCRESET
                762:
                                         :LDD
                                                 #ERR: DEVICETIMEDOUT
8CFB C612
                763:
                                         LDAB
                                                 #(ERR:DEVICETIMEDOUT) & $FF
8CFD 8604
                764:
                                         LDAA
                                                 #(ERR: DEVICETIMEDOUT) /256
8CFF 20E7
                765:
                                         BRA
                                                 WDCQUITWITHERR
                766:
  BD01
                767: WDCSET4TRANS
                                         :LDA
                                                 #WDCNBPS/8
                                                                 : SET NUMBER OF 8 BYTE BLOCKS TO TRANSFER
8D01 8640
                768:
                                         LDAA
                                                 #WDCNBPS/8
                769:
                                         :STA
                                                 WDCCOUNT
8D03 B7932A
                770:
                                         STAA
                                                 WDCCDUNT
                771:
                                         :LDX
                                                 WDCDCBPOINTER
8D06 FE9326
                772:
                                         LDX
                                                 WDCDCBPOINTER
                                         :LDX
                773:
                                                 DSKINFO: SECTORDB, X
BD09 EE2B
                774:
                                         LDX
                                                 DSKINFO: SECTORDB, X
                775:
                                         :LDX
                                                 RDSI:SECTORBASE, X
BDOB EE05
                776:
                                         LDX
                                                 RDSI:SECTORBASE, X
                                                             ; SET UP POINTER TO 1ST BLOCK OF 8 TO MOVE
8D0D FF932B
                777:
                                         STX
                                                 WDCPOINTER
                778:
                                         :LDB
                                                              : GET 'READY' LINE SENSE MASK
                                                 #%00000010
8D10 C602
                779:
                                        LDAB
                                                 #7.00000010
8D12 39
                780:
                                         RTS
                781:
                                        FIN
                                                 IODRIVERBODY
                782:
  0000
                                         ĪΕ
                                                 IODRIVERPOLL
                807:
                                        FIN
                                                 IODRIVERPOLL
                                         IF
  0000
                808:
                                                 IDDRIVERINIT
                833:
                                        FIN
                                                 IODRIVERINIT
                834:
  0000
                                         IF
                                                 IODRIVERRAM
                :688
                                        FIN
                                                 IODRIVERRAM
                887:
                                         END
                                                 ; UNEXPECTED EOF
```

*** SDOS 1/0 drivers for WaveMate Jupiter 1I (C) 1978 SOFTWARE DYNAMICS *** MAL/6800 1.3F: 8D12 SDOSDRIVERS *** THE SD STORAGE DEMON DRIVER *** 01/14/83 11:39:33; Page 63; Form 1 IDJUPITER. ASM FIN 414: 415: INCLUDE 10VTCONFIG.ASM GENERATED BY MAKEVTCONFIG IMMEDIATELY BEFORE ASSY iodriverbody 0001 1: if orofile.MALVT 0001 2: ifund 3: profile.MALVT 0001 eau fin profile.MALVT 4: profile.MALLPT 0001 5: ifund 1 6: profile.MALLPT egu 0001 7: fin profile.MALLPT profile.MALVT 0000 8: ifund 10: fin profile.MALVT profile.RS232LPT ifund 0001 11: 0001 12: profile.RS232LPT equ 1 profile.RS232LPT 13: fin 0001 14: ifund profile.EPSONLPT 15: profile.EPSONLPT 0001 equ profile.EPSONLPT fin 16: ifund profile.ADM3 0001 17: 0001 18: profile.ADM3 equ fin profile.ADM3 ifund profile.67100 0001 20: 21: profile.GT100 0001 eau 22: profile.6T100 fin. ifund profile.H19 0001 23: 0001 24: profile.H19 equ 25: fin . profile.H19 profile.SOROCIQ120 i fund 0001 0001 27: profile.SOROCIQ120 equ 1

profile.SOROCIQ120

fin

28:

```
*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
MAL/4800 1.3F: 8D12 SDOSDRIVERS
                                          VT Device-Specific Code
01/14/83 11:39:33; Page 64; Form 1
IDVTCONFIG.ASM
                                                  iodriverbody
                  30:
                                          fin
  0000
                  31:
                                          if
                                                  iodriverinit
                  39:
                                                  iodriverinit
                                          fin
                  40:
                                                   iodriverbody
  0001
                                          if
  8013
                  41: ilputdev:$FFC0
                                                   $FFC1
                                                                    output data
8D13 B7FFC1
                  42:
                                          staa
                                          ldaa
                                                   #%10110101
                                                                    enable output interrupts
8D16 86B5
                  43:
8D18 B7FFC0
                  44:
                                          staa
                                                   $FFC0
                  45: rts: $FFCO
  BD1B
8D1B 39
                  46:
                                          rts
  8D1C
                  47: ilgetdev: $FFC0
8D1C F&FFCO
                  48:
                                          ldab
                                                   $FFC0
                                                                    get the status first (becuz reading data clears it)
                                                                    get the interrupt-causing data
                  49:
                                          Idaa
                                                   $FFC1
8D1F B6FFC1
                                                   ilgetdevstatusfromacia the rest is common code
8D22 7E8EA2
                  50:
                                           jap
  BD25
                  51: tlcheckready: $FFC0
                                                                    get the status
8D25 B6FFC0
                                                   $FFC0
                  52:
                                          ldaa
                                                                    shift #DCD into carry bit
8D28 46
                  53:
                                          rora
BD29 46
                  54:
                                          rora
8D2A 46
                                          rora
8D28 39
                  56:
                                          rts
                  57:
                                                   iodriverbody
                  58:
                                                  iodriverinit
  0000
                                          i#
                  66:
                                           fin
                                                   iodriverinit
                                          if
  0001
                                                   iodriverbody
                  67:
  802C
                  68: ilputdev: $FFC4
                                                   $FFC5
                                                                    output data
                  69:
                                           staa
8D2C B7FFC5
                                                   #710110101
                                                                    enable output interrupts
8D2F 8685
                  70:
                                           ldaa
8D31 87FFC4
                  71:
                                           staa
                                                   $FFC4
                  72: rts:$FFC4
  8D34
BD34 39
                                           rts
                  74: ilgetdev:$FFC4
  8D35
                                                   $FFC4
                                                                    get the status first (becuz reading data clears it)
8D35 F&FFC4
                  75:
                                           1dab
                                                                    get the interrupt-causing data
                                           ldaa
8D38 B6FFC5
                  76:
                                                   ilgetdevstatusfromacia the rest is common code
8D3B 7E8EA2
                  77:
                                           imp
  8D3E
                  78: tlcheckready:$FFC4
                                                   $FFC4
                                                                    get the status
8D3E B&FFC4
                  79:
                                           ldaa
                                                                    shift #DCD into carry bit
8D41 46
                  80:
                                           rora
BD42 46
                  Ri:
                                          rora
8D43 46
                  82:
                                          rora
8D44 39
                                           rts
                  83:
                                                   iodriverbody
                  84:
                                           fin
                  85:
                                           if
                                                   iodriverinit
  0000
                  93:
                                           fin
                                                   iodriverinit
                  94:
                                           if
                                                   iodriverbody
  0001
  8045
                  95: ilputdev: $FFC8
                                                                    output data
                                                   $FFC9
                  96:
                                           staa
BD45 B7FFC9
                  97:
                                           ldaa
                                                   #210110101
                                                                    enable output interrupts
8D48 86B5
                                           staa
                                                   $FFC8
8D4A B7FFC8
                  98:
   8D4D
                  99: rts: $FFC8
8D4D 39
                  100:
                                           rts
   8D4E
                  101: ilgetdev: $FFC8
                                                                    get the status first (becuz reading data clears it)
                                                   $FFC8
8D4E F6FFC9
                  102:
                                           ldab
                                                                    get the interrupt-causing data
8D51 B6FFC9
                  103:
                                           ldaa
                                                   ilgetdevstatusfromacia the rest is common code
8D54 7E8EA2
                 104:
                                           iao
                  105: tlcheckready: $FFC8
   8057
```

MAL/6800 1.3	F: 8D57 SDOSDRIV	200	*** CN	NG 1/N drivers	for WaveMate	lunitae II (r) 1978 SDE	TWARE DVNAMT(
	39:33; Page 65; F			ice-Specific (whire it	27 1772 GWI	1411111		
IOVTCONFIG.					.,		•			
8D57 B&FFC8	106:		ldaa	\$FFC8	get the sta	atus				
8D5A 46	107:		rora		shift #DCD	into carry	bit			
8D5B 46	108:		rora							
8D5C 46	109:		rora							
8D5D 39	110:		rts			,	7			
	111:		fin	iodriverbody						
0000	112:		if	iodriverpoll						
•	193:		fin	iodriverpoll						
0000	194:		if	iodriverram						
	521:		fin	iodriverram						
	522:								,	
	523:			•						
	416:	INCLUDE		•	IOVTDPBS.ASM				•	
0000	1:	if		erpoll				,		
	3:	fin		erpoll						
0001	4:	if		erbody						
0001	5:	ifund	nexdpb							
0000	6: nextdpb	set	0							
	7:	fin	nextdp	ь						
				2	4					

*** SDOS 1/O drivers for WaveMate Jupiter 11 (C) 1978 SOFTWARE DYNAMICS *** MAL/6800 1.3F: 8D5D SDOSDRIVERS malvt profile (included in all standard 1/0 packages) 01/14/83 11:39:33; Page 66; Form 1 10VTDPBS.ASM 0001 9: profilenum.malvt equ 1 8D5E 11: thisdpb set profile name 8D5E 01 . profilenum.malvt 12: fcb dvtyp.console 8D5F 04 13: fcb next profile 8D40 0000 14: fdb nextdpb default width 8D62 50 15: fcb 80 24 default depth 8D63 18 16: fcb 17: fcb flags 8D64 05 6*tickspersecond+ntimeoutblocks 8D65 0171 18: fdb input translation routine 19: okrts 8D67 0C39 m6800!m6801 0001 20: if 21: 8069 01 nop 22: fin perform control functions 23: sdos+sdos:vtmalvt 8D6A 7EBDD0 jap set output coloring 8D6D 39 24: rts 8D6E 01 25: пор 8D6F 01 26: пор 27: set background coloring 8D70 39 rts 28: \$ nop. 29: #

0,0,0,0,0,0,0,0

thisdpb

gpinit data

000

fcb

set

30: #

31: nextdpb

8D5E

*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** MAL/6800 1.3F: 8D70 SDDSDRIVERS mallpt profile (included in all standard I/O packages) 01/14/83 11:39:33; Page 67; Form 1 IOVTDPBS.ASM 0009 33: profilenum.mallpt equ 9 34: 35: thisdpb 8D71 set profilenum.mallpt profile name 8071 09 36: fcb 8072 05 37: fcb dvtyp:printer next profile 8073 8DSE 38: fdb nextdpb default width 132 8D75 84 39: fcb default depth 8D76 42 40: fcb 66 flags 8D77 03 41: fcb 8078 04710266 42: fdb 6#tickspersecond+ntimeoutblocks input translation routine 8D7A 0C39 43: okrts m6800!m6801 if 0001 44: 8D7C 01 45: nop 46: fin 8D7D 7EBDCD 47: jap sdos+sdos:vtmallpt perform control functions 8D80 39 48: set output coloring rts 8D81 01 49: nop 8082 01 50: nop set background coloring 8D83 39 51: rts 52: * nop 53: * nop 0,0,0,0,0,0,0,0 54: \$ gpinit data fcb 8071 55: nextdpb thisdpb

set

MAL/6800 1.3F: 8D83 SDOSDRIVERS 01/14/83 11:39:33; Page 68; Form 1 IDVTDPBS.ASM *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
hardcopyvt profile and support code (included in all standard I/O packages)

IOVTDPBS.ASM			,	•
0006	57: profilen	um.hardcopy	yvt equ 6	No experience
	58:			
8D84	59: thisdpb	set	*	
8084 06	60:	fcb	profilenum.hardcopyvt	profile name
8085 04	61:	fcb	dvtyp.console	
8D86 8D71	62:	fdb	nextdpb	next profile
8D88 50	63:	fcb	80	default width
8D89 00	64:	fcb	0	default depth
8D8A 14	65:	fcb	20	flags
8D8B 0171	66:	fdb	6#tickspersecond+ntimeoutbl	ocks
8D8D 0C39	67:	okrts	•	perform input translation
0001	68:	if	m6800!m6801	
8D8F 01	69:	nop		
	70:	fin		
8D90 OD39	71:	errorrts	•	perform default control functions
0001	72:	if	m6800!m6801	•
8D92 01	73:	nop		
	74:	fin		
8D93 39	75:	rts		set output coloring
8D94 01	76:	nop		
8D95 01	77:	nop	•	
8096 39	78:	rts		set background coloring
	79: #	nop		
	80: \$	nop		
	81: *	fcb	0,0,0,0,0,0,0	gpinit data
8D84	82: nextdpb	set	thisdpb	•
0001	83:	ifund	profile.cenlpt	n.
0002	84:	else	•	
****	112:	fin	profile.cenlpt	
0000	113:	ifund	profile.rs2321pt	
****	114:	else	-	
				· ·

MAL/6800 1.3F: 8D96 SDOSDRIVERS 01/14/83 11:39:33; Page 69; Form 1

221:

else

MAL/ABOO 1.3F: 8D9A SDOSDRIVERS *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***

rs2321pt profile and support code

	116: ; Opera	ites a pri	nter using standard ascii co	ontrol codes for everything	
000B	118: profilent	ım.rs2321p	t equ ii		
	117:		·	à.	
8097	120: thisdpb	set	*		
8D97 OB	121:	fcb	profilenum.rs232lot	profile name	
BD98 05	122:	fcb	dvtyp.printer		
8D99 8D84	123:	fdb	nextdpb	next profile	
BD9B 84	124:	fcb	132	default width	
8D9C 42	125:	fcb	66	default depth	
8 09 D 02	126:	fcb	2	flags `	
BD9E 0171	127:	fdb	&#tickspersecond+ntimeoutblocks</td></tr><tr><td>8DA0 0C39</td><td>128:</td><td>okrts</td><td>·</td><td>input translation routine</td></tr><tr><td>0001</td><td>129:</td><td>if</td><td>a4800!m4801</td><td>•</td></tr><tr><td>BDA2 01</td><td>130:</td><td>nop</td><td></td><td></td></tr><tr><td></td><td>131:</td><td>fin</td><td>•</td><td></td></tr><tr><td>8DA3 0D39</td><td>132:</td><td>errorrts</td><td></td><td>perform default control functions</td></tr><tr><td>0001</td><td>133:</td><td>if</td><td>m4800!m4801</td><td></td></tr><tr><td>8DA5 01</td><td>134:</td><td>nop</td><td></td><td></td></tr><tr><td></td><td>135:</td><td>fin</td><td></td><td></td></tr><tr><td>8DA6 39</td><td>136:</td><td>rts</td><td>^,</td><td>set output coloring</td></tr><tr><td>8DA7 01</td><td>137:</td><td>пор</td><td></td><td></td></tr><tr><td>BDA8 01</td><td>138:</td><td>nop</td><td></td><td></td></tr><tr><td rowspan=2>8DA9 39</td><td>139:</td><td>rts</td><td></td><td>set background coloring</td></tr><tr><td>140: *</td><td>nop</td><td></td><td>•</td></tr><tr><td></td><td>141: *</td><td>nop</td><td>•</td><td></td></tr><tr><td></td><td>142: #</td><td>fcb</td><td>0,0,0,0,0,0,0</td><td>gpinit data</td></tr><tr><td>8097</td><td>143: nextdpb</td><td>set</td><td>thisdpb</td><td></td></tr><tr><td></td><td>144:</td><td>fin</td><td>profile.rs2321pt</td><td></td></tr><tr><td>0001</td><td>145:</td><td>ifund</td><td>profile.adml</td><td></td></tr><tr><td>0002</td><td>146:</td><td>else</td><td></td><td></td></tr><tr><td></td><td>219:</td><td>fin</td><td>profile.adm1</td><td></td></tr><tr><td>0000</td><td>220:</td><td>ifund</td><td>profile.adm3</td><td></td></tr></tbody></table>		

*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** MAL/6800 1.3F: 8DA9 SDOSDRIVERS adm3 profile and support code 01/14/83 11:39:33; Page 70; Form 1 10VTDPBS.ASM 0003 223: profilenum.adm3 equ 3 224: 8DAA 225: thisdpb set profilenum.adm3 profile name 8DAA 03 226: fcb fcb dvtyp.console 8DAB 04 227: next profile nextdob 8DAC 8D97 228: fdb default width 8DAE 50 229: fcb 80 default depth 230: fcb 24 8DAF 18 8DB0 04 231: fcb flags 6#tickspersecond+ntimeoutblocks fdb 8DB1 0171 232: perform input translation xlatei:adm3 8DB3 7E8DC0 233: jmp perform control functions specialoutput:adm3 8DB6 7E8DCF 234: jap 8DB9 39 235: rts set output coloring 8DBA 01 236: nop 8D88 01 237: пор set background coloring 8DBC 39 238: rts 239: 8DBD 01 nop 8DBE 01 240: пор initial XLATEI state byte 8DBF 00 241: fcb 242: nextdpb thisdpb AAG8 set

*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** MAL/6800 1.3F: 8DBF SDOSDRIVERS adm3 profile and support code 01/14/83 11:39:33; Page 71; Form 1 IOVTDPBS.ASM ifund 0001 dcb:xlatestate translate state byte is 1st gp byte 245: dcb:xlatestate equ dcb:profile+dpb:gpinit 003D 246: fin 247: xlatei:adm3 8DC0 248: ; translate adm3 input found in (a), returning translated character in (a) with carry clear; carry set will cause character to be lost 249: ; ldab #\$7f assume swap for underscore key 8DC0 C67F 250: swap for underscore? 8DC2 815F 251: capa #\$5f xlatei:adm3.b b/ yes, use (B) as translation 8DC4 2706 252: beq assume swap for DEL key ldab #\$5f 8DC6 C65F 253: swap for DEL key? #\$7f 254: 8DC8 817F cmpa b/ no 8DCA 2601 255: bne xlatei:adm3.done 256: xlatei:adm3.b ; use (B) as translation 8DCC 8DCC 17 257: tba 258: xlatei:adm3.done 8DCD 8DCD OC39 259: okrts

```
*** SDDS 1/0 drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
MAL/6800 1.3F: 8DCD SDDSDRIVERS
01/14/83 11:39:33; Page 72; Form 1
                                          adm3 profile and support code
IDVTDPBS.ASM
                261: specialoutput:adm3
 8DCF
                 262: ;
                         called to perform control functions for a Lear Siegler ADM 3-A
                          The position, and clear functions are implemented. All others
                 263: :
                          must be simulated by the VT driver.
                 264: ;
8DCF 8181
                                          #specialfn:posn
                 265:
                                cmpa
8DD1 2706
                266:
                                bea
                                          specialoutput:adm3posn
8DD3 8182
                                          #specialfn:clear
                 267:
                                cmpa
8DD5 271E
                268:
                                beq
                                          specialoutput:adm3clear
8DD7 0D39
                 269:
                                                                         adm3a can't do anything else
                                errorrts
                270:
  8DD9
                271: specialoutput:adm3posn
8DD9 861B
                272:
                                ldaa
                                         #ascii:esc
BDDB AD7D
                273:
                                jsr ·
                                          dcb:tlbuffer,x
                                         를"=
                                                                         set up to do a position fn
8DDD 843D
                274:
                                ldaa
8DDF AD7D
                275:
                                          dcb:tlbuffer.x
                                jsr
8DE1 30
                276:
                                tsx
8DE2 A602
                277:
                                ldaa
                                          2, x
8DE4 8B20
                278:
                                adda
                                         #$20
                                          dcbpointer
8DE6 DE06
                 279:
                                1 dx
8DE8 AD7D
                280:
                                          dcb:tlbuffer.x
                                jsr
8DEA 30
                 281:
                                tsx
                282:
                                ldaa
BDEB A603
                                         3,x
8DED 8920
                 283:
                                adda
                                          #$20
BDEF DE06
                284:
                                1dx
                                          dcbpointer
8DF1 AD7D
                 285:
                                          dcb:tlbuffer,x
                                jsr
8DF3 0C39
                286:
                                okrts
                 287:
  8DF5
                288: specialoutput:adm3clear
8DF5 861A
                 289:
                                ldaa
                                                                         performs a clear screen in
                 290:
8DF7 AD7D
                                jsr
                                          dcb:tlbuffer,x
8DF9 0C39
                291:
                                okrts
                 292:
                                fin
                                          profile.adm3
  0001
                293:
                                ifund
                                          profile.tvi912c
                 294:
  0002
                                else
                360:
                                fin
                                          profile.tvi912c
                                          profile.soroc120
  0001
                 361:
                                ifund
  0002
                362:
                                else
                 431:
                                fin
                                          profile.sproc120
  0000
                 432:
                                ifund
                                         profile.h19
                 433:
                                else
```

* *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** MAL/6800 1.3F: 8DF9 SDDSDRIVERS 01/14/83 11:39:33; Page 73; Form 1 h19 profile and support code IOVTOPBS.ASM 435: profilenum.h19 equ 5 0005 436: 8DFB 437: thisdpb set profilenum.h19 . profile name 8DFB 05 438: fcb dvtyp.console 8DFC 04 439: fcb nextdpb . next profile fdb 8DFD 8DAA 440: default width 8DFF 50 441: fcb 80 24 default depth 8E00 18 442: fcb flags ' 8E01 04 443: fcb 6#tickspersecond+ntimeoutblocks 8E02 0171 444: fdb xlatei:h19 perform input translation - 8E04 7E8E11 445: jmp perform control functions specialoutput:h19 8E07 7E8E50 446: jap 447: coloring:h19 set output coloring . 8E0A 7E8E8E jap set background coloring (none) 8E0D 39 448: rts 449: 8E0E 01 пор 8E0F 01 450: nop initial XLATEI state byte 451: 8E10 00 fcb 8DFB 452: nextdpb set thisdpb

```
*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
MAL/6800 1.3F: BE10 SDOSDRIVERS
                                         h19 profile and support code
01/14/83 11:39:33; Page 74; Form 1
10VTDP8S.ASM
                454:
                                ifund
                                         dcb:xlatestate
  0000
                 456:
                                fin
                 457: xlatei:h19
  8E11
                          translate h19 input found in (a), returning translated character in (a)
                 458: :
                          with carry clear; carry set will cause character to be lost
                                         dcb:xlatestate,x
8E11 6D3D
                 460:
                                bne
                                         xlatei:h19.escape
8E13 2608
                 461:
8E15 8118
                 462:
                                capa
                                         #ascii:esc
                                          xlatei:h19.ok
8E17 2605
                 463:
                                bne
                                          dcb:xlatestate.x
8E19 6C3D
                 464:
                                inc
                                errorrts
8E18 0D39
                 465:
                 466:
                 467: xlatei:h19.b ; use (8) as translation of character
  BEID .
8E1D 17
                 468:
                                tba
                 469: xlatei:hi9.ok; (A) is tranlated character
  8E1E
                                okrts
8E1E 0C39
                 470:
                 471:
  8E20
                 472: xlatei:hi9.escape
                         if character following <ESC> is not A, B, C, D, J, N, or Q,
                          then bitch and revert to the standard state
                 474: :
                                          dcb:xlatestate,x
8E20 6F3D
                 475:
                                clr
                                          #ascii:vt
                                 ldab
8E22 C60B
                 476:
                                                                         cursor up?
BE24 B141
                 477:
                                 cmpa
                                          #7A
                                          xlatei:h19.b
 8E26 27F5
                 478:
                                 beq
                                          #ascii:lf
                                 1 dab
8E28 C60A
                 479:
                                                                         cursor down?
                                          #'8
                 480:
                                 copa
 8E2A 8142
                                          xlatei:hi9.b
8E2C 27EF
                 481:
                                 beq
                                          #ascii:ff
 8E2E C60C
                 482:
                                 ldab
                                                                         cursor right?
                 483:
                                 cmpa
 BE30 B143
                                          xlatei:h19.b
 8E32 27E9
                 484:
                                 beq
                                          #ascii:bs
                 485:
                                 ldab
 8E34 C608
                                                                          cursor left?
                                          #° ]
 BE36 B144
                  486:
                                 cmpa
                                          xlatei:h19.b
                 487:
                                 beq
 8E38 27E3
                                          #ascii:enq
 8E3A C605
                  488:
                                 ldab
                                          #°J
                                                                          ^E?
                 489:
                                 capa
 8E3C 814A
                                           xlatei:h19.b
                  490:
                                 beq
 8E3E 27DD
                                           #ascii:nak
                                 ldab
 BE40 C615
                 491:
                                                                          417
                                           # 3 N
 8E42 814E
                  492:
                                 cmpa
                                           xlatei:h19.b
 8E44 27D7
                 493:
                                 beq
                  494:
                                 ldab
                                           #ascii:esc
 BE46, C61B
                                                                          (ESC)?
                                           #70
                  495:
                                 cmpa
 BE48 8151
                                           xlatei:h19.b
 8E4A 27D1
                  496:
                                 beq
   8E4C
                  497: xlatei:h1932
                  498:
                                 inc
                                           dcb:beepcount,x
 8E4C 6C5E
                                                                          ionore character
                                 errorrts
 8E4E 0D39
                  499:
```

```
*** SDOS 1/0 drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
MAL/6800 1.3F: 8E4E SDOSDRIVERS
                                         h19 profile and support code
01/14/83 11:39:33; Page 75; Form 1
10VTDPBS.ASM
  8E50
                501: specialoutput:h19
                502: ; called to perform control functions for a Heath H-19
                         The position, clear and erase to end of line functions are implemented.
                503: :
8E50 8181
                504:
                               cmpa
                                         #specialfn:posn
BE52 270A
                505:
                                beq
                                         specialoutput:h19posn
                                         #specialfn:clear
8E54 8182
                506:
                               стра
8E56 2722
                507:
                                beq
                                         specialoutput:hi9clear
                508:
                                         #specialfn:eeol
8E58 8183
                               capa
8E5A 2728
                509:
                                beq
                                         specialoutput:h19eeol
                                                                        h19 can't do anything else
8E5C 0D39
                510:
                               errorrts
                511:
  8E5E
                512: specialoutput:h19posn
8E5E 861B
                513:
                               ldaa
                                         #ascii:esc
BE60 AD7D
                514:
                                jsr
                                         dcb:tlbuffer.x
8E62 8659
                515:
                                         #'∀
                                                                        set up to do a position fn
                               ldaa
                                         dcb:tlbuffer,x
BE64 AD7D
                516:
                                isr
BE66 30
                517:
                                tsx
BE67 A602
                518:
                                1daa
                                         2, x
8E69 8B20
                519:
                                adda
                                         #$20
BEAB DEOA
                520:
                               1 dx
                                         dcbpointer
8E6D AD7D
                521:
                                         dcb:tlbuffer.x
                                jsr
                522:
BE6F 30
                                tsx
BE70 A603
                523:
                                ldaa
                                         3.x
8E72 8820
                524:
                                adda
                                         #$20
8E74 DE06
                525:
                                ldx
                                         dcbpointer
BE76 AD7D
                526:
                                jsr
                                         dcb:tlbuffer,x
                527:
8E78 0C39
                                okrts
                528:
                529: specialoutput:h19clear
  8E7A
8E7A 861B
                530:
                                ldaa
                                         #ascii:esc
BE7C AD7D
                531:
                                         dcb:tlbuffer,x
                                jsr
BE7E 8645
                532:
                                ldaa
                                                                        performs a clear screen fo
                                         #'E
                                         dcb:tlbuffer,x
8E80 AD7D
                533:
                                isr
8E82 0C39
                534:
                                okrts
                535:
  8E84
                536: specialoutput:h19eeol
8E84 861B
                537:
                                ldaa
                                         #ascii:esc
                538:
                                         dcb:tlbuffer.x
8E86 AD7D
                                jsr
8E88 864B
                539:
                                ldaa
                                         #1K
                                                                        performs a eeol fn
8E8A AD7D
                540:
                                         dcb:tlbuffer.x
                                jsr
BEBC 0C39
                 541:
                                okrts
```

MAL/6800 1.3F			*** SDOS I/O drivers for Way h19 profile and support code	/eMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** e
10VTDPBS.ASM		·		
8E8E	543: colo	ring:h19	•	
8E8E 8508	544:	bita	#%00001000	reverse video desired ?
8E90 2608	545:	bne	coloring:h19reversevideo	b/ yes
8E92 8618	544:	ldaa	#ascii:esc	send "normal video" command
BE94 AD7D	547:	jsr	dcb:tlbuffer,x	,
8E96 8671	548:	ldaa	#¹q	
8E98 6E7D	549:	jmp	dcb:tlbuffer,x	
	550:			
8E9A	551: colo	ring:h19rever	sevideo	
8E9A 861B	552:	ldaa	#ascii:esc	send "reverse video" request
8E9C AD7D	553:	jsr	dcb:tlbuffer,x	
BE9E 8670	554:	l daa	#'p	
8EA0 6E7D	555:	qmi	dcb:tlbuffer,x	•
	556:	fin	.,profile.h19	
0001	557:	i fund	profile.hazeltine	
0002	558:	else		
	561:	fin	profile.hazeltine	
0001	562:	ifund	profile.beehive	
0002	563:	else		
•	566:	fin	profile.beehive	,
0001	567:	ifund	profile.exorterm155	
0002	568:	else	•	
	743:	fin	exorterm155	

```
*** SDOS I/O drivers for WaveMate Jupiter 11 (C) 1978 SOFTWARE DYNAMICS ***
MAL/6800 1.3F: 8EAO SDOSDRIVERS
                                      h19 profile and support code
01/14/83 11:39:33; Page 77; Form 1
10VTDPBS.ASM
 8EA2
               745: ilgetdevstatusfromacia
               747: : receives control from the acia device access routine, returns either
               748: the available character, with carry clear, or the error status, with
               749: ;
                       carry set.
               750:
               751: ; the data or error status is returned in (a)
               752:
               753: ; the status is defined as:
               754:
                                                       framing error (probably BREAK received)
                             200000001
               755: ;
                              200000010
               756: ;
                                                       overrun (data lost)
                             200000100
                                                       parity error
               757: ;
               758:
                                                      check for parity, overrun, or framing errors
                             bitb
                                      #201110000
8EA2 C570
               759:
                                      ilgetdevicestatusfromaciaerror
8ÉA4 2602
               760:
                             bne
8EA6 0C39
               761:
                             okrts
               762:
 8EA8
               763: ilgetdevicestatusfromaciaerror
                                                       make a standard status byte
8EA8 17
               764:
                              tba
8EA9 44
               765:
                             lsra
8EAA 44
               766:
                             lsra
8EAB 44
               767:
                             lsra
8EAC 44
               768:
                             lsra
8EAD 8407
               769:
                             anda
                                      #200000111
               770:
BEAF OD39
                              errorrts
               771:
                             fin
                                      iodriverbody
               772:
                              end
```

MAL/6800 1.3F: 8EAF SDOSDRIVERS

*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
CONFIG TABLE

01/14/83	11:39:33;	Page	78;	Form
TATIOTEC	ADM.			

IOJUPITER.ASM	-	-		
0001	418:	IFUND	INTERRUPTSTACKSIZE	
0046	419:	INTERRUPTSTACK	SIZE	EQU MINSTACK+7+7+7+7+7+7 7 FOR EACH POSSIBLE
	420:	‡		NESTED INTERRUPT RESULTING FROM A DEVICE
	421:	FIN	INTERRUPTSTACKSIZE	
	422:	‡		
8EB1 9377	423:	CNFGTABLE	FDB'	DISKDOBS DEFAULT DISK MUST BE FIRST
8EB3 9627	424:	FDB	TTYDCB	CONSOLE MUST BE FIRST
8EB5 9D8D	425:	FDB	IOCOPOINTERS	
8EB7 08	426:	FCB	NIOCHANNELS	
8EB8 9DE3	427:	FDB	DSKBUFFERPOOL	,
8EBA 081D	428:	- FDB	DSKPOOLSIZE	•
8EBC.BDD3	429:	FDB	SDOS+SDOS: VTATTNCHECK	
8EBE 8407	430:	FDB	DEBU6SYSCALLHANDLER	
8EC0 8400	431:	FDB	DRIVERBASE	· · · · · · · · · · · · · · · · · · ·
8EC2 9D9D	432:	FDB	INTSETUP	
8EC4		INTDISABLE	4	
0001	434:	IF	M6800!M6801	
8EC4 01	435:	NOP		INT DISABLE
	436:	FIN		
8EC5 OF	437.:	SEI	,	
8EC6. 39	438:			,
8EC7		INTENABLE		
8EC7 0E	440:	CLI		
BEC8 39	441:	RTS	•	
0001	442:	IF	M6800!M6801	
8EC9 01	443:	NOP	`	,
	444:	FIN		
8ECA 3B		INTRTI RTI		INT RTI
SECB 01	446:	NOP		
BECC 01	447:	NOP		
BECD 9DE2	448:	FDB	INTERRUPTSTACKEND-1	
BECF BFA2	449:	FDB		ROUTINE TO DETERMINE INTERRUPTING DEVICE
8ED1 9724	450:	FDB	TASKQUEUE	
8ED3 94C8	451:	FDB	TIMEOUTQUEUE	
8ED5 8DFB	452:		NEXTOPB	
8ED7 8410	453:	FDB	DEBUGINTERRUPT	WITH CONTEXT BLOCK ON STACK
2207 4.00	454:		,	
0000	455:	IF	SDOSHT	
0000	457:			
8ED9 0000	458:		0	NO SDOS/MT PRIMITIVES
	459:		·,	
0000	460:		SDOSMT	,
	541:		SDOSMT	•
	542:		- /	•
8ED8 BD8E2D		ILLDEVICEOP	JSR .	SDOS+SDOS: ERROR
BEDE 040A	544:		ERR: ILLDEVICEOP	
waste willi	545:			
BEEO BDBE30		ERRETX JSR	SDOS+SDOS:ERRORSAVE	
BEE3 7EBE33	547:			
THE PARTY OF	548:			
0032		PATCHSPACE	RPT	50
BEE6 3F	550:		••• •	· ·
		w.i.*		

										BUNGAUTES A	
							Jupiter	11 (E)	1978 SOFTWARE	DYNAMICS 1	111
0	1/14/83	11:39:33; P	age 79; Form i	*** INTE	RRUPT POLL (CHAINS ###					
I	OJUPITER	. ASM									
	0000	552:	IODRIVERBODY SET			0					
	0001	553:	IODRIVERPOLL SET			1					
		554:									
	8F18	555:	STACKUNSWITCHEDDEVI	CEPOLL ;	come here v	/ia IRQ vector			,		
		556:	INCLUDE			IDVTCONFIG. AS	М				
	0000	1:	•	if	iodriverbody	1					
		30:		fin	iodriverbody	Ý					
	0000	31:	1	if	iodriverinit	t					
4		39:	e e	fin	iodriverinit	t					
	0000	40:		if	iodriverbody	1					
		57:		fin .	iodriverbody	Y			•		
	0000	58:		if	iodriverinit	,					
		.66:		fin	iodriverinit	t				•	
	0000	67:		if	iodriverbody	Y					
		84:		fin	iodriverbody		•				
	0000	85:		if	iodriverini	t					
		93:		fin	iodriverinit	t ,					
	0000	94:		if	iodriverbody	Y					
		111:			iodriverbody						
	0001	112:		if	iodriverpol)						
					-						

```
*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
MAL/6800 1.3F: 8F17 SDOSDRIVERS
                                         VI Interrupt Poll Chain
01/14/83 11:39:33; Page 80; Form 1
IOVTCONFIG.ASM
                                                  ; should be first in poll chain
                114: vt:interruptpollchain
  8F18
                                                                  test irq
                                                  $FFC0
8F18 B6FFC0
                                                  noint: $FFC0
                                                                  b/ no int here
                                          bpl
                116:
8F1B 2A28
                                                  #dcb: $FFCO
                                                                  look more closely
                 117:
                                          1 dx
8F1D CE9627
                                                                   handle output interrupts pronto!
                                                  #%10000010
8F20 8182
                 118:
                                          cmpa
                                                  notoutput:$FFC0
                                          bne
8F22 2608
                 119:
                 120: gotoutput: $FFC0
  8F24
                                                  #210010101
                                                                   disable output interrupt
                 121:
                                          ldaa
8F24 8695
                                          staa
                                                  $FFC0
                 122:
8F26 B7FFC0
                                                  sdos+sdos:vtoutputint -
                 123:
                                          imp
8F29 7EBDDF
                 124: notoutput: $FFC0
  8F2C
                                                                   data carrier detect dropped
                                                  #%00000100
8F2C 8504
                 125:
                                          bita
                                                  notdcddrop: $FFC0
                 126:
                                          bea
8F2E 2708
                                                                   clear interrupt caused by "dcd
                                          ldab
                                                  $FFC1
                 127:
8F30 F6FFC1
                                                  #%00000010
                                                                   output requested with "dcd?
                                          bita
                 128:
8F33 8502
                                                  gotoutput:$FFC0 b/ yup!
                 129:
                                          bne
8F35 26ED
  '8F37
                 130: rti:$FFC0
                 131:
                                          rti
8F37 3B
                 132: notdcddrop:$FFC0
  8F38
                                                  #201110001
                                                                   receiver register full or error
                                          bita
                 133:
 8F38 8571
                                                   notinput: $FFC0
                 134:
                                          beq
 8F3A 2703
                                                   sdos+sdos:vtinputint
8F3C 7EBDDC
                 135:
                                          jmp
                 136: notinput: $FFC0
  8F3F
                                          bita
                                                   #200001000
 8F3F 8508
                 137:
                                                   rti:$FFC0
                                                                    ionore CTS interrupt glitch
                                          bne
                 138:
 8F41 26F4
                                                                   wierd condition
                 139:
                                          bra
 8F43 20FE
                 140: noint: $FFC0
   8F45
                                                   $FFC4
                                                                   test irq
 8F45 86FFC4
                 141:
                                          ldaa
                                           bol
                                                   noint: $FFC4
                                                                    b/ no int here
                 142:
 8F48 2A28
                                                   #dcb:$FFC4
                                                                   look more closely
                 143:
                                          ldx
 8F4A CE9763
                                                                    handle output interrupts pronto!
                                                   #%10000010
                 144:
                                           cmpa
 8F4D 8182
                                                   notoutput:$FFC4
 8F4F 2608
                 145:
                                           bne
                 146: gotoutput:$FFC4
   8F51
                                                   #%10010101
                                                                    disable output interrupt
                 147:
                                           ldaa
 8F51 8695
                                                   $FFC4
                                           staa
                  148:
 8F53 B7FFC4
                                                   sdos+sdos:vtoutputint
 8F56 7EBDDF
                                           jmp
                 149:
   8F59
                  150: notoutout: $FFC4
                                                                    data carrier detect dropped
                                                   #%00000100
                 151:
                                           bita
 8F59 8504
                                                   notdcddrop:$FFC4
                                           bea
 8F5B 2708
                  152:
                                                                    clear interrupt caused by "dcd
                  153:
                                           ldab
                                                   $FFC5
 8F5D F6FFC5
                                                                    output requested with "dcd?
                                                   #200000010
                                           bita
 8F60 8502
                  154:
                                                   qotoutput: $FFC4 b/ yup!
 8F62 26ED
                  155:
                                           bne
                  156: rti: $FFC4
   8F64
                                           rti
                  157:
 8F64 3B
   8F65
                  158: notdcddrop:$FFC4
                                                                    receiver register full or error
                                           bita
                                                   #%01110001
                  157:
 8F65 8571
                                                   notingut: $FFC4
                  160:
                                           beq
 8F67 2703
                                                   sdos+sdos:vtinputint
                  161:
                                           jmp
 8F69 7EBDDC
                  162: notinput: $FFC4
   8F6C
                                                   $200001000
                                           bita
 8F4C 8508
                  163:
                                                    rti:$FFC4
                                                                    ignore CTS interrupt glitch
                  164:
                                           bne
 8F6E 26F4
                                                                    wierd condition
                                           bra
                  165:
  8F70 20FE
   8F72
                  166: noint: $FFC4
                                                    $FFC8
                                                                    test irq
                                           ldaa
  8F72 B6FFC8
                  167:
                                                    noint: $FFC8
                                                                    b/ no int here
                                           bol
                  168:
  8F75 2A28
```

-				
,			, , , , , , , , , , , , , , , , , , , ,	
	8F77 SDOSDRIVERS		08 1/0 drivers f errupt Polï Chai	or WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
IOVTCONFIG.ASM	:33; Page 81; Form 1	At THE	strahr torr rugs	,
8F77 CE98A2	169:	ldx	#dcb:\$FFC8	look more closely
8F7A 8182	170:	стра	#210000010	handle output interrupts pronto!
8F7C 2608	171:	bne	notoutput:\$FFC	
8F7E	172: gotoutput:\$FFC		nocouchaciti	
8F7E 8695	173:	ldaa ·	#210010101	disable output interrupt
8F80 B7FFCB	174:	staa	\$FFC8	
8F83 7EBDDF	175:	jmp	sdos+sdos:vtou	tnutint
8F86	176: notoutput:\$FFC			,
8F86 8504	177:	bita	#%00000100	data carrier detect dropped
8F88 2708	178:	beq	notdcddrop:\$FF	* *
8F8A F6FFC9	179:	ldab	\$FFC9	clear interrupt caused by "dcd
8F8D 8502	180:	bita	#%00000010	output requested with "dcd?
8F8F 26ED	181:	bne	gotoutput:\$FFC	
8F91	182: rti:\$FFC8	SIIL	gocourpuct	u is jup.
8F91 3B	183:	rti		
8F92	184: notdcddrop:\$FF			
8F92 8571	185:	bita	#%01110001	receiver register full or error
8F94 2703	186:	beq	notinput:\$FFC8	-
8F96 7EBDDC	187:	jap	sdos+sdos:vtin	
8F99	188: notinput:\$FFC8	1#h	agos agos actu	paerne
8F99 8508	189:	bita	#700001000	not CTS
8F9B 26F4	190:	bne	rti:\$FFC8	ignore CTS interrupt glitch
8F9D 20FE	191:	bra	*	wierd condition
8F9F	192: noint:\$FFC8	nı a	•	Atel a Condiction
gr7r	173:	fin	iodriverpoll	•
0000	174:	if	iodriverpoli	
0000	521:	fin	iodriverram	
	522:	TIII	100t 1 AELL 4M	
	523:			
0000 700017		ennetenne.	TOTAL CO	ewitch chacks now
8F9F 7EBE12	557: JMP 558:	SDOS+SDOS:	rotu: do	switch stacks now
GCAG.		autecon: .		quitables stacks
8FA2	559: STACKSWITCHEDDI		. come nere atcer	switching stacks
0001	560: IF 561: INCLUI	CLOCK	TO.	CLDEK. ASM
4444	1: two rough	1F	10DR1VERBODY	CLUCK: Han
0000	201:	FIN -	IODRIVERBODY	· · · · · · · · · · · · · · · · · · ·
۸۸۸۸	,	IF.	IODRIVERRAM	*
0000	202: 228:	FIN ·		•
•		LTM.	10DRIVERRAM	
	229:		7	
	230:			;
	562: FIN	ATOD 40000	nu:	
0001	563: IF	STORAGEDEM		OTROCOCKANI SOM
****	564: INCLUI			STOREDEMON. ASM
0000	1:	ĪF	IODRIVERBODY	
6844	781:	FIN	IODRIVERBODY	
0001	782:	IF	10DR1VERPOLL	•
0001	783:	IF.	USEDEMONASCLOC	
Amag 4.0	784:	;LDA	VIAIFR	CHECK FOR CLOCK INTERRUPT FROM VIA
8FA2 B6FF4D	785:	LDAA	VIAIFR	TOO . OLGOV BOUT O
8FA5 84C0	786:	ANDA	#%11000000	IRQ + CLOCK DONE ?
	787:	; CMPA	#%11000000	?
8FA7 81C0	788:	CMPA	#211000000	7.17
8FA9 2608	789:	BNE	WDCPOLL1	B/ NO
	790:	;STA	VIAIFR	ACKNOWLEDGE THE CLOCK INTERRUPT
8FAB B7FF4D	791:	STAA	VIAIFR	. •

					·
				•	
		*************	+++ CR(on tin delinee 'C	or WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
MAL/4800 1.3F					
01/14/83 11:39		ge 82; Form I	At Ture	errupt Poll Chai	
IOSTOREDEMON.				#i	= 1/60TH SECOND
0010 0104	792:		;LDA LDAA	#1	- 1700III JEDOND
8FAE 8601	793:		;JMP	SDOS+SDOS:CLOC	VTICVEN
orna Tenein	794:		junr JMP	SDOS+SDOS:CLOC	
8FB0 7EBE18	795:	uneno: : 4	EOU	1	R I LGNLD
8FB3		WDCPOLL1	FIN	USEDEMONASCLOC	A.
	797: 798:		;LDA	VIAIFR	ACCEPT DISK INTERRUPT ONLY IF NO CLOCK INTERRUPT PENDING
8FB3 B6FF4D	779:		LDAA	VIAIFR	HEADEL I NAME THE PROPERTY OF THE PARTY OF T
8F86 84D0	800:		ANDA	#211010000	MASK TO OBTAIN CLOCK AND DISK INT BITS
8556 8400	801:		; CMPA		DISK ONLY ?
8FB8 8190	802:	*	CMPA	#210010000	· Manife Witten
8FBA 2603	803:		BNE	WDCPOLLNEXT	B/ NO
OF DH 2003	804:		JMP	WDCINTERRUPT	YES, GO SERVICE DISK INTERRUPT
8FBC 7E8C69	805:		JMP	WDCINTERRUPT	
8FBF		WDCPOLLNEXT	EQU	1	
GI DI	807:	ADDI VELITA	FIN	IODRIVERPOLL	
0000	808:		IF	IODRIVERINIT	
0000	833:		FIN	IODRIVERINIT	
0000	834:		IF	IODRIVERRAM	
*****	: 688		FIN-	IDDRIVERRAM	
*,,	887:		END	UNEXPECTED E	DF .
`,	565:	FIN			
0001	566:	IF VI	RTUALFLO	PPY	
	567:	INCLUDE		I	OVFD. ASM
0000	1:	IF	IOD	RIVERBODY	
	57:		FIN	IODRIVERBODY	
0000	- 58:		IF	IODRIVERRAM	
	127:	FIN	IODRI\	/ERRAM	
0000	128:	IF	100	RIVERINIT	
	172:	FIN		RIVERINIT	,
0000	173:			ERBODY	
,	410:			/ERBODY	
0001	411:	IF	IODRI\	ERPOLL	•

*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** MAL/6800 1.3F: 8FBC SDOSDRIVERS Virtual Floppy Driver Interrupt-Level Routines 01/14/83 11:39:33; Page 83; Form 1 IOVFD.ASM 8FBF 413: DISKINTSERVICE 0002 414: IF PERSCI 8FBF B6FFA1 415: LDAA PERSCI: PIACE PerSci Controller 416: PERSCIINTERRUPTMASK EQU 1+1 ; set by RESET routines BFC3 417: BITA #\$80 Want interrupt ? . 8FC2 8580 8FC4 2709 418: BEQ DISKINTPERSCI.NO LDX #CCB:PERSCI 8FC6 CE9017 419: · PerSci interrupted, so absorb the BFC9 F6FFA3 420: LDAB PERSCI: PIADB interrupt from that controller 8FCC 7E8685 JMP 421: DISKINTERRUPT 422: DISKINTPERSCI.NO ; not Persci 8FCF PERSC I 423: FIN 0002 424: IF DAMFLOPPY 425: 8FCF B6FF81 LDAA DAMFLOPPY: PIACB DAM Floppy Controller 426: DAMFLOPPYINTERRUPTMASK equ 1+1 8FD3 427: BITA #\$80 Want interrupt ? 8FD2 8580 8FD4 2709 428: BEQ DISKINTDAMFLOPPY.NO 8FD6 CE9045 429: LDX #CCB: DAMFLOPPY DAM floppy interrupted, so absorb 8FD9 F6FF83 430: LDAB DAMFLOPPY: PIADB the interrupt from that controller JMP 8FDC 7E86B5 431: DISKINTERRUPT 8FDF 432: DISKINTDAMFLOPPY.NO 433: FIN DAMFLOPPY 434: FIN **IODRIVERPOLL** 0000 435: IF IODRIVERBODY 995: FIN **IODRIVERBODY** 996: 997: 568: FIN 569: 8FDF FE8FE9 570: LDX BADINTERRUPTCOUNT CAN'T FIGURE OUT WHO IT IS... INX BUMP CRAZY INTERRRUPT COUNTER 8FE2 08 571: STX BADINTERRUPTCOUNT 8FE3 FF8FE9 572:

8FE6 7EBE15

573:

JMP

SDOS+SDOS:RTI

AND HOPE IT WENT AWAY !

```
MAL/6800 1.3F: 8FE6 SDOSORIVERS
                                        *** SOOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
 01/14/83 11:39:33; Page 84; Form 1
                                          *** WORKING STORAGE ***
IOJUPITER.ASM
  0000
                 575: IODRIVERPOLL
                                      SET
  0001
                 576: IODRIVERRAM
                                      SET
                                                               1
                 577:
8FE9 0000
                 578: BADINTERRUPTCOUNT FOB 0 # OF INTERRUPTS FROM UNKNOWN DEVICES
                 579:
  0000
                 580:
                                IF
                                      SDOSMT
                 588:
                                FIN
                                     SDOSMT
                 589:
  0001
                 590:
                                IF
                                      CLOCK
                 591:
                               INCLUDE
                                                               IOCLOCK.ASM
  0000
                 1:
                                          IF
                                                   IDDRIVERBODY
                 201:
                                          FIN
                                                  IODRIVERBOOY
                 202:
  0001
                                          IF
                                                  IODRIVERRAM
8FEB 01
                 203: CLOCKDCB
                                          FCB
                                                  1
                                                                   CLOCK'S ALWAYS DONE
8FEC 0000
                 204:
                                          FOB
                                                                   LASTER
8FEE 8FFB
                 205:
                                          FDB
                                                  CLOCKSTR
8FF0 0000
                 206:
                                          FDB
                                                  NEXTDEVICEOUS
8FF2 8415
                 207:
                                          FDB
                                                  CLOCKORIVER
  8FF4
                 208: OIV600IVIDEND
                                          EQU
8FF4 000000
                 209: CLOCKBUFFER
                                          FCB
                                                  0,0,0
8FF7 00
                 210: DAY
                                          FCB
8FF8 -00
                 211: MONTH
                                          FCB
                                                  0
8FF9 00
                 212: YEAR
                                          FCB
                                                  Ü
                 213: CLOCKFRACTION
8FFA FF
                                          FCB
                                                  -1
BFFB 434C4F43
                 214: CLOCKSTR
                                          FCC
                                                  'CLOCK:'
9001 00
                 215:
                                          FCB
                 216: $
  8FEB
                 217: NEXTOEVICEOCB
                                          SET
                                                  CLOCKDCB
                 218: 1
  9002
                219: TIME$
                                          EQU
                 220: TIME$:HOURS
9002 30303A
                                          FCC
                                                  '00:'
9005 30303A
                221: TIME: MINUTES
                                          FCC
                                                  '00:
9008 303020
                 222: TIME : SECONOS
                                          FCC
                                                  '00 °
  900B
                223: DATE$
                                         EQU
                                                  200/2
900B 30302F
                224: DATE$:MONTH
                                          FCC
900E 30302F
                225: DATE$:DAY
                                          FCC
                                                  100/1
9011 3030
                226: OATE4:YEAR
                                          FCC
                                                  7007
                227: 1
                228:
                                         FIN
                                                  IODRIVERRAM
                229:
                230:
                592:
                               FIN
  0000
                593:
                               IF
                                     BLACKHOLE
                595:
                               FIN
  0000
                596:
                               IF
                                     SOLP
                599:
                               FIN
  0001
                600:
                               IF
                                     VIRTUALFLOPPY
                601:
                               INCLUDE
                                                              IOVFD.ASM
  0000
                  1:
                                    IF
                                             IODRIVERBODY
                 57:
                                        FIN
                                                IODRIVERBODY
  0001
                 58:
                                        IF '
                                                 IODRIVERRAM
9013 0002
                 59: DISKINTDCB
                                        RMB
                                                2
                                                                address of DCB for interrupt service
9015 0002
                 60: DISKINTCEB
                                        RMB
                                                 2
                                                                address of CCB for interrupt service
```

```
*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
MAL/6800 1.3F: 9015 SDOSDRIVERS
                                        *** WORKING STORAGE ***
01/14/83 11:39:33; Page 85; Form 1
IOVFD. ASM
                 62: *
                                        Controller Definitions
                 63:
                                        IF
                                                PERSCI
  0002
                 64:
                 65: $
                                        PerSci Controller
                 66:
                 67: CCB:PERSCI
  9017
                                                1
9017 01
                 68:
                                        FCB
                                                               controller busy: 0 = yes, <>0 = no
                                        FDB
                                                                address
9018 FFA0
                 69:
                                                $FFA0
901A 00
                 70:
                                        FCB
                                                               timeout counter
                                        FCB
                                                $FF
                                                                drive to access
901B FF
                 71:
                                        FCB
                                                $FF
                                                               cylinder to access
901C FF -
                 72:
                                                               last cylinder accessed
                                        FCB
                                                $FF
901D FF
                 73:
                                                DISKINTSTARTPERSCI
901E 86C2
                 74:
                                        FDB
9020 7E8864
                 75:
                                        JMP
                                                PERSCI:STATUS
9023 7E8891
                 76:
                                        JMP
                                                PERSCI: RESET
                                                PERSCI: ABORT
9026 7E887B
                 77:
                                        JMP
9029 7E886C
                 78:
                                        JMP
                                                PERSCI:RESTORE
902C 7E8895
                 79:
                                        JMP
                                                PERSCI: SETSEEK
902F 7E8897
                 80:
                                        JMP
                                                PERSCI: SEEK
9032 7E88B3
                 81:
                                        JMP
                                                PERSCI:READSECTOR
                                        JMP
                                                PERSCI: WRITESECTOR
9035 7E88CF
                 82:
                                                PERSCI: VERIFYSECTOR
9038 7E88AC
                 83:
                                        JMP
                 84: FDTIMEOUTBLOCK
  903B
                                        SET
                                                                timeout block for PerSci floppies
903B 0000
                 85:
                                        FDB
                                                NEXTTIMEOUT
903D 0000
                 86:
                                        FDB
                                                                fuse length
                                        FDB
                                                PERSCI: TIMEOUT
903F 8976
                 87:
                 88: NTIMEOUTS
                                        SET
                                                NTIMEOUTS+1
  0001
                 89: NEXTTIMEOUT
                                        SET
                                                FDTIMEOUTBLOCK
  903B
  9043
                 90:
                                        ORG
                                                FDTIMEOUTBLOCK+TIMEOUT:SIZE
9043 0000
                 91:
                                        FDB
                                                                current DCB
  0002
                 92:
                                        IF
                                                DAMFLOPPY
```

```
*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
MAL/6800 1.3F: 9043 SDOSDRIVERS
                                        *** WORKING STORAGE ***
01/14/83 11:39:33; Page 86; Form 1
IOVFD.ASM
                                       FIN
                                               DAMFLOPPY
                 94:
                                               PERSCI
                 95:
                                       FIN
                                       IF
                                               DAMFLOPPY
                 96:
  0002
                                       DAM Floppy Controller
                 97: *
                 98:
                 99: CCB: DAMFLOPPY
  9045
                                                               controller busy: 0 = yes, <>0 = no
                                       FCB
                                               1
                100:
9045 01
                                                               address
                                                $FF80
                101:
                                       FD8
9046 FF80
                                                               timeout counter
                                       FCB
                                                0
                102:
9048 00
                                                               drive to access
                                                $FF
                                        FCB
                103:
9049 FF
                                                            cylinder to access
                                                $FF
                                       FCB
904A FF
                104:
                                                             last cylinder accessed
9048 FF
                105:
                                        FCB'
                                                DISKINTSTARTDAMFLOPPY
                                       FDB
9040 8607
                104:
                                        JMP
                                                DAMFLOPPY:STATUS
904E 7E88EB
                107:
                                                DAMFLOPPY: RESET
9051 7E8914
                                        JMP
                108:
                                                DAMFLOPPY: ABORT
                                        JMP
9054 7E88FF
                109:
                                                DAMFLOPPY: RESTORE
9057 7E88F2
                110:
                                        JMP
                                                DAMFLOPPY: SETSEEK
                                        JMP
905A 7E8918
                111:
                                                DAMFLOPPY: SEEK
                                        JMP
905D 7E891B
                112:
                                                DAMFLOPPY: READSECTOR
                                        JMP
                 113:
9060 7E8938
                                                DAMFLOPPY: WRITESECTOR
                                        JMP
9043-7E8952
                114:
                                                DAMFLOPPY: VERIFYSECTOR
                                        JMP
9066 7E892E
                 115:
                116: FDTIMEOUTBLOCK
                                        SET
  9069
                                        FDB
                                                NEXTTIMEOUT
                                                               timeout block for PerSci floppies
 9069 903B
                 117:
                                                               fuse length
                                        FD8
9048 0000
                 118:
                                                DAMFLOPPY:TIMEOUT
                                        FDB
 904D 897B
                 119:
                                        SET
                                                NT IMEOUTS+1
  0002
                 120: NTIMEOUTS
                 121: NEXTTIMEOUT
                                        SET
                                                FDTINEOUTBLOCK
  9069
                                        ORG
                                                FDTIMEOUTBLOCK+TIMEOUT:SIZE
                 122:
  9071
                                                                current DCB
                                        FDB
                 123:
 9071 0000
                                                DAMFLOPPY
                                        FIN
                 124:
```

	126:	INC	LUDE IDVFDDCBS.ASM	
0001	1:	IFUND	: DCBNUMBER	
4000	2:	NDISKDCBS	SET	NDISKDCBS+PERSCI*WMFORMAT+PERSCI*IBMFORMAT+DAMFLOPPY
9073	3:	NEXTDISKDCB	SET	
0000	4:	:DRIVENUMBER	SET	` 0
0000	5:	: DCBNUMBER	SET	0
0,002	6:	:DAMFLOPPY	SET	DAMFLOPPY
0002	7:	:PERSCI	SET	PERSCI
9073	8:	:HEADCHAIN	SET	1
0000		:NEXTCHAIN	SET	0
0002	10:	IF	PERSCI	
0001	11:	: WMFORMAT	SET	WMFORMAT
0001		: IBMFORMAT	SET	IBMFORMAT
	13:		PERSCI	
0003	14:			
	24:		: DCBNUMBER	·

```
*** SDDS I/O drivers for WaveMate Jupiter II (C) 1978 SDFTWARE DYNAMICS ***
MAL/6800 1.3F: 9071 SDDSDRIVERS
                                          *** WORKING STORAGE ***
01/14/83 11:39:33; Page 88; Form 1
IDVFDDCBS.ASM
                                      :DAMFLOPPY
                  26:
  0002
                  27: *
                               DAM Floppy
                  28:
                                                               bytes per sector
                  29: :BPS
                                      256
  0100
                               SET
                                                               sectors per track
                  30: :SPT
                               SET
                                      18
  0012
                                                               tracks per cylinder
                               SET
                                      i
  0001
                  31: :TPC
                                                               cvlinders
                  32: :CYL
                               SET
                                      40
  0028
                                                               don't complement data
                  33: :DATA
                               SET
  0000
                                                               first sector
                               SET
                 34: :FIRST
                                      0
  0000
                                                               CCB: DAMFLDPPY
                                      SET
                  35: :CONTROLLER
  9045
                                                               :PERSCI
  0003
                  36:
                  62:
                               FIN ; DAMFLOPPY
                  63:
                                Device Control Block
                  64: $
                  65:
                                SET
                                      *
  9073
                  66: :DCB
   005B
                  :86
                                RPT
                                      FDSIZE
                                                               clear dcb
                  69:
                                FCB
                                      Õ
9073 00
                                DRG
                                      :DCB
   9073
                  71:
                                FCB
                                      1
                  72:
9073 01
                                      O.O.O.FDDRIVER.
                                FDB
9074 00000000
                  73:
                                      :BPS,:SPT,:TPC,:CYL
907C 01000012
                  74:
                                FD8
                  75:
                                DRG
                                      :DCB+FDDSTATEJ
   90B6
                                      DISKINTUNEXPECTED
                                JMP
9086 7E875E
                  76:
                                DRG
                                      :DCB+FDDRIVE
                  77:
   90BB
                                FCB
                                      :DRIVENUMBER, $FF
                  78:
90BB OOFF
                                      :DCB+FDCDMPLEMENT
                  79:
                                DRG
   908E
                  80:
                                FCB
                                      :DATA.:FIRST
90BE 0000
                                FDB
                                       :HEADCHAIN, O
                  81:
 9000 90730000
                                       :CONTROLLER
                                FDB
 9004 9045
                  82:
                                ORG
                                       :DCB+FDMAPALG
                  83:
   9006
                                                               set mapalgorithm intially to 1
 9006 0001
                  84:
                                FDB.
                                DRG
                                       : DCB+FDMAP
   90CE
                   85:
                  87:
                                RPT
                                       :SPT
   0012
                                       1-(:DCB+FDMAP)
                                FCB
                   88:
 90CE 00
                                       į
                   90: ::
                                SET
   90E0
                   91:
                                DRG
                                       :DC8+DCB:NAME
   9076
                   92:
                                FDB
                                       ::-
 9076 90E0
                   93:
                                DRG
 90E0
                                IF
                                       :DCBNUMBER>9
                   94:
   0000
                   96:
                                ELSE
                                FCB
                                       'D.'0+:DCBNUMBER,':,0
 90E0 44303A00
                   97:
                                 FIN
                                       :DCBNUMBER>9
                   98:
```

OVFDDCBS.ASM	59:33; Page 8 '	.,	*** WORKING STORAG	***
0001	100: :DCB	NIMBER	SET	: DCBNUMBER+1
0001	101: :DRI		SET	:DRIVENUMBER+1
0001	102:	IF	&: NEXTCHAIN	
0001	103: :NEX		SET	1
,	104:	FIN	&: NEXTCHAIN	
0000	105:	IF	:DRIVENUMBER&%10	
	143:	FIN	:DRIVENUMBER&%10	
0004	144:	IF	:PERSCI+:DAMFLOPPY	,
	145:	INCLU	DE .	IQVFDDCBS.ASM
0000	1:	IFUNI	:DCBNUMBER	
	14:	ELSE		
90E4	15: ::	SET	‡	
9078	16:	ORG	:DCB+DCB:NEXTDCB	
078 90E4	17:	FDB		
90E4	18:	OR6	**	
0001	19:	IF	: NEXTCHAIN	,
90C2	20:	ORG	:DCB+FDNEXTCHAIN	
OC2 90E4	21:	FDB	::	
90E4	22:	ORG	11	
	23:	FIN	: NEXTCHAIN	
	24:	FIN	:DCBNUMBER	

```
*** SDOS 1/8 drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
MAL/8800 1.3F: 90C2 SDDSDRIVERS
                                       *** WORKING STORAGE ***
01/14/83 11:39:33; Page 90; Form 1
IOVFDDCBS.ASM
 0002
                26:
                                   : DAMFLOPPY
                27: *
                             DAM Floppy
                28:
                29: :BPS
                                                           bytes per sector
                                   256
  0100
                                                           sectors per track
  0012
                30: :SPT
                             SET
                                   18
                                                           tracks per cylinder
  0001
                31: :TPC
                             SET
                                   1
  0028
                32: :CYL
                             SET
                                   40
                                                           cylinders
                             SET
                                                           don't complement data
  0000
                33: :DATA
                34: :FIRST
                             SET
                                   0
                                                           first sector
  0000
                                                           CCB: DAMFLOPPY
                35: :CONTROLLER
                                   SET
  9045
                                                           :PERSCI
                36:
                             ELSEIF
  0004
                             FIN : DAMFLOPPY
                62:
                 63:
                             Device Control Block
                 64: 1
                 65:
  90E4
                66: :DCB
                             SET
                                                           clear dcb
                             RPT
                                   FDSIZE
                 68:
  005B
                             FCB
90E4 00
                49:
  90E4
                71:
                             ORG
                                   :DCB
                             FCB
90E4 01
                 72:
                                   1
                                   0.0.0.FDDRIVER
                          FDB
                73:
90E5 00000000 -
                             FDB
                                   :BPS,:SPT,:TPC,:CYL
90ED 01000012
                74:
                             ORG
  9127
                 75:
                                   :DCB+FDDSTATEJ
9127 7E875E
                 76:
                             JMP
                                   DISKINTUNEXPECTED
                             ORG
                                   : DCB+FDDRIVE
  912C
                 77:
                 78:
                             FCB
                                   :DRIVENUMBER. $FF
912C 01FF
                             DRG
                                   :DCB+FDCOMPLEMENT
  912F
                 79:
                 80:
                             FCB
                                   :DATA,:FIRST
912F 0000
                 81:
9131 90730000
                             FDB
                                   :HEADCHAIN.O
                 82:
                             FDB
                                   :CONTROLLER
9135 9045
                             ORS
                                   :DCB+FDMAPAL6
  9137
                 83:
                                                          set mapalgorithm intially to 1
                 84:
                             FDB
9137 0001
                              DRG
                                   :DCB+FDMAP
  913F
                 85:
                 87:
                             RPT
                                   :SPT
  0012
913F 00
                 88:
                              FCB
                                   *-(:DCB+FDMAP)
                                   'n
                 90: ::
                             SET
  9151
 . 90E7
                                   :DCB+DCB:NAME
                 91:
                              ORG
                             FDB
90E7 9151
                 92:
  9151
                 93:
                              DRG
                                   11
                              IF
                                    :DCBNUMBER>9
  0000
                 94:
                 96:
                              ELSE
                             FCB
                                   'D,'0+:DCBNUMBER,':,0
9151 44313A00
                 97:
                             FIN : DCBNUMBER > 9
                 98:
```

MAL/6800 1.3F: 9151 SDOSDRIVERS *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** 01/14/83 11:39:33; Page 91; Form 1 *** WORKING STORAGE *** IOVFDDCBS.ASM 0002 100: :DCBNUMBER :DCBNUMBER+1 SET 0002 101: :DRIVENUMBER SET :DRIVENUMBER+1 0000 102: IF &: NEXTCHAIN 104: FIN &: NEXTCHAIN 0002 105: IF :DRIVENUMBER&%10 0002 106: IF :DAMFLOPPY 0000 107: :DAMFLOPPY :DAMFLOPPY-2 SET 0001 108: IF :DAMFLOPPY(1 0000 109: :DRIVENUMBER SET 110: FIN :DAMFLOPPY(1 0001 111: IF :NEXTCHAIN 0000 112: :NEXTCHAIN SET 0 113: FIN : NEXTCHAIN 9155 114: : HEADCHAIN SET 0005 115: ELSEIF :PERSCI 142: FIN :DAMFLOPPY :DRIVENUMBER&%10 143: FIN 0002 144: IF :PERSCI+:DAMFLOPPY 145: INCLUDE IOVFDDCBS.ASM IFUND : DCBNUMBER 0000 1: 14: ELSE 9155 SET 15: :: 90E9 16: ORG :DCB+DCB:NEXTDCB 90E9 9155 17: FDB :: 9155 18: ORG :: 0000 19: IF :NEXTCHAIN 23: FIN : NEXTCHAIN 24: FIN : DCBNUMBER

```
MAL/6800 1.3F: 90E9 SDDSDRIVERS
                                         *** SDDS I/D drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
01/14/83 11:39:33; Page 92; Form 1
                                         *** WORKING STORAGE ***
IOVFDDCBS.ASM
  0000
                  26:
                               IF
                                     : DAMFLDPPY
  0002
                  36:
                               ELSEIF
                                                              :PERSCI
  0001
                 37:
                               IF
                                     : IBMFORMAT
                  3B: #
                               IBM Disk
                 39:
  0800
                  40: :BPS
                               SET
                                     128
                                                              bytes per sector .
  001A
                  41: :SPT
                               SET
                                     26
                                                              sectors per track
  0001
                  42: :TPC
                               SET
                                     1
                                                              tracks per cylinder
  004D
                  43: :CYL
                                     77
                               SET
                                                              cylinders
  0001
                 44: :DATA
                               SET
                                     1
                                                              complement data
  0001
                  45: :FIRST
                               SET
                                                              first sector
  9017
                 46: :CONTROLLER
                                     SET
                                                              CCB: PERSCI
  6000
                  47:
                               ELSEIF
                                                              :WMFDRMAT
                 59:
                               FIN
                                     : IBMFDRMAT
  0005
                  60:
                               ELSE
                 62:
                               FIN
                                     :DAMFLOPPY
                 63:
                 64: $
                               Device Control Block
                 65:
  9155
                 66: :DCB
                               SET
                                     *
  005B
                 68:
                               RPT
                                     FDSIZE
                                                              clear dcb
9155 00
                 69:
                               FCB
                                     0
  9155
                               ORG
                                     :DCB
                 71:
9155 01
                               FCB
                 72:
9156 00000000
                 73:
                               FDB
                                     0,0,0,FDDRIVER
915E 0080001A
                 74:
                              FDB
                                     :BPS,:SPT,:TPC,:CYL
  9198
                 75:
                               DRG
                                     :DCB+FDDSTATEJ
9198 7E875E
                 76:
                               JMP
                                     DISKINTUNEXPECTED
  9190
                 77:
                               DRG
                                     :DCB+FDDRIVE
919D 00FF
                 78:
                              FCB
                                     :DRIVENUMBER, $FF
  91A0
                 79:
                               ORG
                                     :DCB+FDCOMPLEMENT
91A0 0101
                 :08
                              FCB
                                     :DATA,:FIRST
91A2 91550000
                 81:
                               FDB
                                     :HEADCHAIN.O
91A6 9017
                 82:
                              FDB
                                     :CONTRDUER
                 83:
  91A8
                               ORG
                                     :DCB+FDMAPAL6
91A8 0001
                 84:
                              FDB
                                     1
                                                             set mapalgorithm intially to 1
  91B0
                 85:
                               DRG
                                     : DCB+FDMAP
  ODIA
                 87:
                              RPT
                                     :SPT
91B0 00
                 B8:
                               FCB
                                     #-(:DCB+FDMAP)
 91CA
                 90: :::
                              SET
                 91:
  9158
                               DRG
                                     :DCB+DCB:NAME
915B 91CA
                 92:
                              FDB
                                     ::
                 93:
  91CA
                              DRG
                                     ::
                                     :DCBNUMBER>9
  0000
                 94:
                              IF
                 96:
                              ELSE
91CA 44323A00
                 97:
                              FCB
                                     'D, '0+:DCBNUMBER,':.0
                 98:
                                    : DCBNUMBER >9
                              FIN
```

*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** MAL/6800 1.3F: 91CA SDDSDRIVERS *** WORKING STORAGE *** 01/14/83 11:39:33; Page 93; Form 1 IOVFDDCBS.ASM 0003 100: :DCBNUMBER :DCBNUMBER+1 SET 0001 101: :DRIVENUMBER SET :DRIVENUMBER+1 0001 &: NEXTCHAIN 102: IF 0001 103: :NEXTCHAIN SET &: NEXTCHAIN 104: FIN IF :DRIVENUMBER&Z10 0000 105: 143: FIN :DRIVENUMBER&%10 0002 144: IF :PERSCI+:DAMFLOPPY 145: INCLUDE IOVFDDCBS.ASM · 1: IFUND : DCBNUMBER 0000 14: ELSE 91CE 15: :: SET 915A 16: ORG :DCB+DCB:NEXTDCB 915A 91CE 17: FDB :: 91CE 18: ORG :: 0001 19: IF :NEXTCHAIN 91A4 20: ORG :DCB+FDNEXTCHAIN 91A4 91CE 21: FDB 91CE 22: ORG 23: FIN :NEXTCHAIN 24: FIN :DCBNUMBER

```
MAL/6800 1.3F: 91A4 SDOSDRIVERS
                                       *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
01/14/83 11:39:33; Page 94; Form 1
                                       *** WORKING STORAGE ***
IOVFDDCBS.ASM
 0000
                26:
                             1F
                                   :DAMFLOPPY
                                                            :PERSCI
                             ELSEIF
 0002
                36:
 0001
                37:
                             IF
                                   : IBMFORMAT
                             IBM Disk
                38: *
                39:
  0800
                40: :BPS
                             SET
                                   128
                                                           bytes per sector
  001A
                41: :SPT
                              SET
                                   26
                                                            sectors per track
                42: :TPC
                                                           tracks per cylinder
 0001
                             SET
                                   1
  004D
                 43: :CYL
                              SET
                                   77
                                                           cylinders
                44: : DATA
                                                           complement data
  0001
                              SET
                                   i
                                                           first sector
                 45: :FIRST
                              SET
                                   1
  0001
                                                         CCB:PERSCI
  9017
                 46: :CONTROLLER
                                    SET
                                                            :WMFORMAT
  0007
                 47:
                              ELSEIF
                59:
                              FIN
                                   : IBMFORMAT
                 60:
                              ELSE
  0006
                62:
                             FIN
                                  : DAMFLOPPY
                 63:
                 64: #
                             Device Control Block
                 65:
                 66: :DCB
  91CE
                              SET
                                                            clear dcb
                 68:
                              RPT
                                   FDSIZE
  005B
91CE 00
                 69:
                              FCB
                                    0
  91CE -
                 71:
                              ORG
                                   : DCB
91CE 01
                 72:
                              FCB
                                   0,0,0,FDDRIVER
91CF 00000000
                 73:
                              FDB
                              FDB
                                   :BPS,:SPT,:TPC,:CYL
91D7 0080001A
                74:
                                   :DCB+FDDSTATEJ
  9211
                 75:
                              ORG
9211 7E875E
                              JMP
                                    DISKINTUNEXPECTED
                 76:
  9216
                 77:
                              DRG
                                   :DCB+FDDRIVE
                              FCB
                                   : DRIVENUMBER, $FF
9216 01FF
                 78:
                 79:
                                   :DCB+FDCOMPLEMENT
 9219
                              ORG
                 80:
                              FCB
                                    :DATA.:FIRST
9219 0101
9218 91550000
                 81:
                              FDB
                                    :HEADCHAIN, 0
                              FDB
                                    :CONTROLLER
921F 9017
                 82:
                 83:
                              ORG
                                    :DCB+FDMAPALG
  9221
9221 0001
                 84:
                              FD8
                                    1
                                                           set mapalgorithm intially to 1
                 85:
                              ORG
  9229
                                    :DCB+FDMAP
  001A
                 87:
                              RPT
                                    SPT
                 88:
                              FCB
                                    #-(:DCB+FDMAP)
9229 00
  9243
                 90: ::
                              SET
                 91:
                              ORG
                                    :DCB+DCB:NAME
  91D1
91D1 9243
                 92:
                              FDB
                                    ::
  9243
                 93:
                              ORG
  0000
                 94:
                              IF
                                    : DCBNUMBER>9
                              ELSE
                 96:
9243 44333A00
                 97:
                              FCB
                                   'D,'0+:DCBNUMBER,':,0
                 98:
                              FIN
                                  : DCBNUMBER>9
```

MAL/6800 1.3F: 9243 SDOSDRIVERS *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** IOVFDDCBS.ASM 100: :DCBNUMBER 0004 SET :DCBNUMBER+1 0002 101: :DRIVENUMBER SET :DRIVENUMBER+1 0000 102: IF **%:NEXTCHAIN** 104: FIN &: NEXTCHAIN 0002 IF 105: :DRIVENUMBER&%10 0000 106: IF :DAMFLOPPY 0002 115: ELSEIF :PERSCI 0001 116: IF : IBMFORMAT 0000 117: :IBMFORMAT SET :WMFORMAT 0001 118: IF 0000 119: :DRIVENUMBER SET :DRIVENUMBER-2 0009 120: ELSE . FIN :WMFORMAT 130: 0008 131: ELSEIF :WMFORMAT FIN : IBMFORMAT 141: 142: FIN :DAMFLOPPY FIN : DRIVENUMBER&%10 143: 0002 144: IF :PERSCI+:DAMFLOPPY 145: INCLUDE IOVFDDCBS.ASM IFUND : DCBNUMBER 0000 1: ELSE 14: SET 9247 15: :: İ 91D3 16: ORG :DCB+DCB:NEXTDCB 9103 9247 17: FDB ;; ORG 9247 18: :: 0001 19: IF :NEXTCHAIN 921D 20: ORG : DCB+FDNEXTCHAIN 921D 9247 21: FDB :: 9247 22: ORG :: 23: FIN :NEXTCHAIN

:DCBNUMBER

FIN

24:

```
MAL/6800 1.3F: 921D SDOSDRIVERS ... *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
01/14/83 11:39:33; Page 96; Form 1
                                       *** WORKING STORAGE ***
IOVFDDCBS.ASM
                                   : DAMFLOPPY
 0000
                 26:
                              IF
 0002
                 36:
                              ELSEIF
                                                            :PERSCI
                             IF
  0000
                 37:
                                 : IBMFORMAT
  0001
                 47:
                             ELSEIF
                                                            :WMFORMAT
                 48: 1
                             Wavemate Disk
                 49:
                                                            bytes per sector
  0100
                 50: :BPS
                             SET
                                    256
                                                            sectors per track
  0010
                 51: :SPT
                              SET
                                    16
  0001
                 52: :TPC
                             SET
                                    1
                                                            tracks per cylinder
                 53: :CYL
                                    77
                                                            cylinders
  004D
                              SET
  0000
                 54: :DATA
                                                            don't complement data
                              SET
                                    0
                 55: :FIRST
                                                            first sector
  0000
                              SET
                                    0
  9017
                 56: :CONTROLLER
                                    SET
                                                            CCB: PERSCI
  8000
                 57:
                              ELSE
                 59:
                              FIN
                                    : IBMFORMAT
                              ELSE
  0007
                 60:
                 62:
                             FIN
                                   : DAMFLOPPY
                 63:
                 64: $
                             Device Control Block
                 65:
                 66: :DCB
 9247
                              SET
                                    $
                 68:
                              RPT
                                   FDSIZE
                                                            clear dcb
  005B
                 69:
                              FCB
9247 00
                                    Û
  9247
                 71:
                              ORG
                                    : DCB
                 72:
                             FCB
9247 01
                              FDB
                                    0.0.0,FDDRIVER
9248 00000000
                 73:
                             FDB
9250 01000010
                 74:
                                    :BPS,:SPT,:TPC,:CYL
                                    :DCB+FDDSTATEJ
  928A
                 75:
                              ORG
928A 7E875E
                 76:
                              JMP
                                    DISKINTUNEXPECTED
  928F
                 77:
                              ORG
                                    :DCB+FDDRIVE
                              FCB
928F 00FF
                 78:
                                    :DRIVENUMBER, $FF
 9292
                 79:
                              ORG
                                   :DCB+FDCOMPLEMENT
9292 0000
                 80:
                             FCB
                                    :DATA.:FIRST
                              FDB
                                    :HEADCHAIN, 0
9294 91550000
                 81:
9298 9017
                 82:
                             FDB
                                    :CONTROLLER
  929A
                 83:
                              ORG
                                    :DCB+FDMAPALG
929A 0001
                 94:
                             FDB
                                    1
                                                           set mapalgorithm intially to 1
                                    :DCB+FDMAP
  92A2
                 85:
                              ORG.
                 87:
                              RPT
 0010
                                    :SPT
92A2 00
                 88:
                              FCB
                                    #-(:DCB+FDMAP)
                 90: ::
 92B2
                              SET
  924A
                 91:
                              ORG
                                    :DCB+DCB:NAME
924A 92B2
                 92:
                              FDB
                                    ::
  92B2
                 93:
                              ORG
                              IF
                                    :DCBNUMBER>9
  0000
                 94:
                              ELSE
                 96:
9282 44343A00
                 97:
                             FCB
                                    'D,'0+:DCBNUMBER,':,0
```

:DCBNUMBER>9

FIN

98:

*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** MAL/4800 1.3F: 9282 SDDSDRIVERS *** WORKING STORAGE *** 01/14/83 11:39:33; Page 97; Form 1 IOVFDDCBS.ASM :DCBNUMBER+1 0005 100: :DCBNUMBER SET :DRIVENUMBER+1 0001 101: :DRIVENUMBER SET &: NEXTCHAIN 0000 102: IF 104: FIN &: NEXTCHAIN IF 0000 105: :DRIVENUMBER&X10 143: FIN :DRIVENUMBER&X10 IF :PERSCI+:DAMFLOPPY 0002 144: IOVFDDCBS.ASM 145: INCLUDE IFUND : DCBNUMBER 0000 1: 14: ELSE SET 92B6 15: :: ORG :DCB+DCB:NEXTDCB 924C 16: 924C 92B6 17: FDB :: 92B6 ORG 18: :: 0001 19: IF :NEXTCHAIN ORG :DCB+FDNEXTCHAIN 9296 20: 9296 9286 FDB 21: :: 22: ORG 9286 : NEXTCHAIN 23: FIN 24: FIN : DCBNUMBER

```
*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
MAL/6800 1.3F: 9296 SDOSDRIVERS
                                        *** WORKING STORAGE ***
01/14/83 11:39:33; Page 98; Form 1
IOVFDDCBS.ASM
                                    :DAMFLOPPY
                 26:
                              ΙF
 0000
                              ELSEIF
                                                             :PERSCI
  0002
                 36:
  0000
                 37:.
                              IF : IBMFORMAT
                                                             :WMFORMAT
                              ELSEIF
                 47:
  0001
                              Wavemate Disk
                 48: $
                 49:
                                                            bytes per sector
                 50: :BPS
                              SET
                                    256
  0100
                                                             sectors per track
                              SET
                                    16.
  0010
                 51: :SPT
                                                             tracks per cylinder
                 52: :TPC
                              SET 1
  0001
                                                             cvlinders
                              SET
                                    77
  004D
                 53: :CYL
                                                             don't complement data
                 54: : DATA
                              SET
                                    0
  0000
                                                             first sector
  0000
                 55: :FIRST
                 56: :CONTROLLER
                                    SET
                                                             CCB: PERSCI
  9017
                 57:
                              ELSE
  0009
                              FIN
                                    : IBMFORMAT
                 59:
                              ELSE.
  0008
                 60:
                              FIN : DAMFLOPPY
                 62:
                  63:
                 64: $
                              Device Control Block
                  45:
                  66: :DCB
                              SET
  9286
                                    *
                                                             clear dcb
                               RPT
                                    FDSIZE
                  68:
  005B
                               FCB
                                     ٥
9286 00
                  69:
                  71:
                               ORG
                                     :DCB
  92B6
                               FCB
                  72:
9286 01
                                     0.0.0,FDDRIVER
                               FDB
                  73:
 9287 00000000
                                     :BPS.:SPT.:TPC,:CYL
                               FDB
92BF 01000010
                  74:
                                     :DCB+FDDSTATEJ
                  75:
                               ORG
  92F9
92F9 7E875E
                  76:
                               JMP
                                     DISKINTUNEXPECTED
                               ORG
                                     :DCB+FDDRIVE
                  77:
  92FE
                  78:
                               FCB
                                     :DRIVENUMBER, $FF
 92FE 01FF
                                    :DCB+FDCOMPLEMENT
                  79:
                               ORG
  9301
                               FCB
                                     :DATA.:FIRST
 9301 0000
                  80:
                               FDB
                                     :HEADCHAIN; 0
 9303 91550000
                  81:
                  82:
                               FDB
                                     :CONTROLLER
 9307 9017
                                     :DCB+FDMAPALG
                               org
   9309
                  83:
                                                            set mapalgorithm intially to 1
                  84:
                               FDB
                                     1
 9309 0001
                                     :DCB+FDMAP
                               ORG
   9311
                  85:
                  87:
                               RPT
                                     :SPT
   0010
                                     #-(:DCB+FDMAP)
 9311 00
                  88:
                               FCB
                  90: ::
                               SET
   9321
                               ORG
                                     :DCB+DCB:NAME
   9289
                 91:
                               FDB
 9289 9321
                  92:
                                     ::
   9321
                  93:
                               ORS
                                     ::
                               ΙF
                                     :DCBNUMBER>9
                  94:
   0000
                  96:
                               ELSE
                               FCB
                                     'D,'0+:DCBNUMBER,':,0
 9321 44353A00
                  97:
```

FIN : DCBNUMBER>9

98:

*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** MAL/6800 1.3F: 9321 SDOSDRIVERS 01/14/83 11:39:33; Page 99; Form 1 *** WORKING STORAGE *** IOVFDDCBS.ASM 0006 100: : DCBNUMBER SET : DCBNUMBER+1 0002 101: : DRIVENUMBER :DRIVENUMBER+1 SET 0000 102: IF **%:NEXTCHAIN** 104: FIN &: NEXTCHAIN 105: IF 0002 :DRIVENUMBER&%10 IF : DAMFLOPPY 0000 106: 0002 115: ELSEIF :PERSCI 0000 116: IF :IBMFORMAT 0001 131: ELSEIF :WMFORMAT 132: :PERSCI SET :PERSCI-2 0000 0000 133: IF :PERSCI FIN :PERSCI 140: 141: FIN : IBMFORMAT 142: FIN :DAMFLOPPY 143: FIN :DRIVENUMBER&%10 144: IF 0000 :PERSCI+:DAMFLOPPY 146: FIN :PERSCI+:DAMFLOPPY 147: 148: 146: FIN :PERSCI+:DAMFLOPPY 147: 148: 146: FIN :PERSCI+:DAMFLOPPY 147: 148: 146: FIN :PERSCI+:DAMFLOPPY 147: 148: 146: FIN :PERSCI+:DAMFLOPPY 147: 148: FIN 146: :PERSCI+:DAMFLOPPY 147: 148: 127: FIN IODRIVERRAM 128: IF IODRIVERINIT 0000 172: FIN IODRIVERINIT 173: 0000 ΙF IODRIVERBODY 410: FIN **IODRIVERBODY** 0000 411: IF **IODRIVERPOLL** 434: FIN IODRIVERPOLL 435: IODRIVERBODY 1F 0000 995: FIN IODRIVERBODY 996: 997: 602: FIN 603: IF STORAGEDEMON 0001 604: INCLUDE IOSTOREDEMON. ASM 1: IF 0000 IODRIVERBODY, 781: FIN IODRIVERBODY 782: IF 0000 IODRIVERPOLL 807: FIN IDDRIVERPOLL: 808: 0000 IF IODRIVERINIT 833: FIN IDDRIVERINIT

834:

0001

ΙF

IODRIVERRAM

,			•	*
MAI / L AAQ 4 1 TE =	OTOS CONGENETUR	172 111 29:	NS T/N drivers fo	r WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
01/14/83 11:39:	7323 SUGDENTIVE 73: Pane 100: 1	nrm 1 111 ST	ORAGE DEMON WORKI	NG RAM 111
IDSTOREDEMON. AS		VIII		,
9325 01	836: WDCINTERF	ACE FCB	i	; WDC CONTROLLER IS AVAILABLE
9326 0000	837: WDCDCBPO	INTER FDB		; CURRENT UNIT IN USE BY INTERRUPT ROUTINES
9328 8066	838: WDCCONTIN	NUEPC FDB	WDCINTUNEXPECTE	D ; WHERE TO GO WHEN TRANSFER DONE INTERRUPT
932A 00	839: WDCCOUNT		0	; COUNTS # OF 8 BYTE BLOCKS TO XFER TO 7710
932B 0000	840: WDCPOINTE		0	; POINTER TO NEXT BLOCK OF 8 BYTES TO XFER
932D 00	841: WDCRETRY	CNT FCB	. 0	; USED TO COUNT # OF READ/WRITE ATTEMPTS
	842:	CAS.		NOT- NOMES! AS
932E 01	843: WDC1DCB	FCB	1	DCB: DONEFLAG
932F 0000	844:	FDB	, O	DCB:LASTERROR
9331 9372	845:	FDB FDB	WDC1STR NEXTDISKDCB	DCB: NEXT
9333 9073	846:	FDB	WDCDRIVER	DCB: DRIVER
9335 89C4 9337 0200	847: 848:	FDB	WDCNBPS	RED: NATAEN
9339 4E34	849:	FDB	WDCNSPT	DSK INFO: NSPT
933B 0001	850:	FDB	WDCNTPC	DSKINFO:NTPC
933D 0001	851:	FDB	WDENEYL	DSKINFO:NCYL
0031	852:	RPT	WDC1DCB+DSKINFO	
933F 00	853:	FCB	0	HULL Y
9370 00	854:	FCB	Ŏ	WDCREADWRITE: 2 IS READ 3 IS WRITE ETC.
9371 01	855:	FCB	i.	DRIVE SELECT 1
9372 5744313A	856: WDC1STR	FCC	'WD1:'	MILLER VENERAL S
9376 00	857:	FCB	0	¥
932E	858: NEXTDISK		MDCiDCB	
0007	859: NDISKDCB		NDISKDCBS+1	•
0007	860:	U UL!	HELDHADE.	
9377 01	861: WDCODCB	FCB	i	DCB: DONEFLAG
9378 0000	862:	FDB	0	DCB:LASTERROR
937A 93BB	863:	FDB	WDCOSTR	
937C 932E	864:	FDB	NEXTDISKDCB	DCB: NEXT
937E 89C4	865:	FDB	WDCDRIVER	DCB: DRIVER
9380 0200	866:	FDB	WDCNBPS	·
9382 4E34	867:	FDB	WDCNSPT	DSKINFO:NSPT
9384 0001	868:	FDB	WDCNTPC	DSKINFO: NTPC
9386 0001	869:	FDB	WDCNCYL	DSKINFO:NCYL
0031	870:	RPT	WDCQDCB+DSKINF	D:SIZE-#
9388 00	871:	FCB	0	
9389 00	872:	FCB	0	WDCREADWRITE: CONTAINS DESIRED DISK OPCODE
93BA 00	873:	FCB	0	DRIVE: 0
9388 5744303A	874: WDCOSTR	FCC	'WDO:'	<i>∑</i>
93BF 00	875:	FCB	0	
9377	876: NEXTDISK		WDCODCB	
.8000	877: NDISKDCE	SET SET	NDISKDCBS+1	•
	878:			
9300 9069	879: WDCTIMED		NEXTTIMEOUT	
93C2 0000	880: WDCTIME		0	
93C4 8CF2	881:	FDB	WDCTIMEDOUT	
	882:			·
	883: \$			
9300	884: NEXTTIME		WDCTIMEOUTBLOCK	K
0003	885: NTIMEOUT		NTIMEOUTS+1	
	886:	FIN	IODRIVERRAM	, -
	887:	END	;UNEXPECTED ED	r
		FIN	*5:	ITPONTIC ADM
4***	606:	INCLUDE		VTCDNF1G. ASM
0000	1:	if	iodriverbody	

/TCONF16.	30:	fin	iadriverbady
0000	31:	if	iodriverinit
•••	39:	fin	iodriverinit
0000	40:	if	iodriverbody
	57:	fin	iadriverbady
0000	58:	if	iodriverinit
	66:	fin	iodriverinit
0000	67:	if	iodriverbody
	84:	fin	iodriverbody
0000	85:	if	iodriverinit
	93:	fin	iodriverinit
0000	94:	if	iodriverbody
	111:	fin	iodriverbody
0000	112:	if	iadriverpoll
	193:	fin	iodriverpoll
0001	194:	· if	iodriverram
0009	195: ntimeouts	set	ó+ntimeouts
	•		
	•		

```
*** SDOS I/O drivers for WaveMate Jupiter II (E) 1978 SOFTWARE DYNAMICS ***
MAL/4800 1.3F: 93C4 SDOSDRIVERS
                                          VT Ring Buffers
01/14/83 11:39:33; Page 102; Form 1
IOVTCONFIG. ASM
                197: ttybuffers
  9306
                                                  outbufsize: $FFC0
  0001
                 198:
                                          i fund
                 199: outbufsize: $FFC0
                                          equ
                                                  80
  0050
                 200:
                                          fin
                                                  linebufsize: $FFC0
                 201:
                                          i fund
  0001
                                                  100
                 202: linebufsize: $FFCO
                                          equ
  0064
                 203:
                                          fin
                                                  inbufsize: $FFCO
  0001
                 204:
                                          ifund
                 205: inbufsize: $FFC0
                                          equ
  0050
                                          fin
                 206:
                 207: ; inbufsize should be less than linebufsize, in order to
                 208: ; avoid too long typed-ahead line
                 209: outbuf: $FFC0
  9306
                                                   outbufsize: $FFC0
                 210:
                                          rab
9304 0050
                 211: inbuf:$FFC0
  9416
                                                   inbufsize: $FFC0
                 212:
                                          rab
9416 0050
  9466
                 213: linebuf:$FFC0
9466 0064
                 214:
                                          rab
                                                   linebufsize: $FFC0
                                          ifund
                                                   outbufsize: $FFC4
  0001
                 215:
                 216: outbufsize: $FFC4
                                          equ
  0050
                                          fin
                 217:
                                                   linebufsize: $FFC4
                                          i fund
  0000
                 218:
                 220:
                                          fin
                 221:
                                           ifund
                                                   inbufsize: $FFC4
  0000
                 223:
                                          fin
                 224: ; inbufsize should be less than linebufsize, in order to
                 225: : avoid too long typed-ahead line
                 226: outbuf: $FFC4
   94CA
                                                   outbufsize: $FFC4
94CA 0050
                 227:
                                           rab
                 228: inbuf:$FFC4
   951A
951A 0000
                                                   inbufsize: $FFC4
                 229:
                                           rab
                  230: linebuf: $FFC4
   951A
                                                   linebufsize: $FFC4
                 231:
                                           rmb
 951A 0000
                                                   outbufsize:$FFC8
                                           ifund
   0001
                  232:
                 233: outbufsize: $FFC8
   0050
                                           equ
                  234:
                                           fin
                 235:
                                                   linebufsize:$FFC8
                                           ifund
   0001
                                                   100
   0064
                  236: linebufsize:$FFC8
                                           eou
                  237:
                                           fin
                                                   inbufsize: $FFC8
   0001
                  238:
                                           ifund
                  239: inbufsize:$FFC8
                                           eau
   0050
                                           fin
                  240:
                  241: : inbufsize should be less than linebufsize, in order to
                  242: ; avoid too long typed-ahead line
                  243: outbuf:$FFC8
   951A
                                                   outbufsize: $FFC8
 951A 0050
                  244:
                                           rab
                  245: inbuf:$FFC8
   958A
                                                    inbufsize: $FFC8
                                           rab
 956A 0050
                  246:
                  247: linebuf: $FFC8
   95RA
                                                    linebufsize: $FFC8
                  248:
                                           rab
 958A 0064
```

```
*** SDDS I/O drivers for WaveMate Jupiter II (C) 1978 SDFTWARE DYNAMICS ***
MAL/6800 1.3F: 95BA SDOSDRIVERS
01/14/83 11:39:33; Page 103; Form 1
                                           VT DCBs
IDVTCONFIG. ASM
                 250: dcbname: $FFC0
  961E
                 251:
                                                    /CONSOLE:/
961E 434F4E53
                                           fcc
9626 00
                 252:
                                           fcb
                                           ifund
                                                   ttydcb
  0001
                 253:
                 254: ttydcb
  9627
                                           fin
                 255:
                                                   ttydcb
  9627
                 256: dcb: $FFC0
  OOFD
                 257:
                                           rpt
                                                   dcb:vtsize
9627 00
                 258:
                                           fcb
                                                   dcb: $FFCO+dcb: name
                 259:
  962A
                                           orq
                                                    drbname: $FFC0
962A 961E
                 260:
                                           fdb
                                                    dcb: $FFC4
962C 9763
                 261:
                                           fdb
962E BDE2
                 262:
                                           fdb
                                                    sdos+sdos:vtdispatch
  96DC
                 263:
                                                    dcb:$FFCO+dcb:reset
                                           orq
                                                    reset: $FFC0
96DC 7E9E4B
                 264:
                                           jap
96DF 0C39
                 265:
                                           okrts
                                                                     dumo nothina
                                                    m6800!m6801
                 266:
                                           if
  0001
96E1 01
                 267:
                                           noo
                 268:
                                           fin
96E2 7E8D13
                 269:
                                                    ilputdev: $FFC0
                                           jmp
                                                    ilgetdev: $FFC0
                 270:
96E5 7E8D1C
                                           jap
                                                                     no extra control calls defined
                                                    illdeviceop
96E8 7E8ED8
                 271:
                                           imp
                                                                     no extra status calls defined
                                                    illdeviceop
96EB 7E8EDB
                 272:
                                           jap
96EE 7E8D25
                 273:
                                           jmp
                                                    tlcheckready: $FFCO go check for acia ready
                 274:
                                                    dcb:$FFCO+dcb:outputtoblk
  9608
                                           org
                                                   ttytimeouts
  0001
                 275:
                                           ifund
  9608
                 276: ttytimeouts
                 277:
                                           fin
                                                    ttytimeouts
  9608
                 278: outputtoblk:$FFC0
96C8 96D0
                 279:
                                           fdb
                                                    inputtablk: $FFC0
96CA 0000
                 280:
                                           fdb
                 281:
96CC 8DD9
                                           fdb
                                                    sdos+sdos: vtoutputto
                 282:
                                           fdb
                                                    dcb: $FFC0
96CE 9627
                 283:
                                                    dcb: $FFCO+dcb:inputtoblk
  9600
                                           orq
  96D0
                 284: inputtoblk: $FFC0
                 285:
                                           fdb
                                                    outputtoblk: $FFC4
96D0 9804
96D2 0000
                 286:
                                           fdb
                 287:
                                           fdb
                                                    sdos+sdos:vtinputto
96D4 BDD6
9606 9627
                 288:
                                           fdb
                                                    dcb: $FFC0
                                                    dcb:$FFCO+dcb:tcb
                 289:
  9608
                                           ora
96D8 9724
                 290:
                                           fdb
                                                    tcb: $FFC0
                                                    dcb: $FFCO+dcb: taskstack
  96DA
                 291:
                                           ora
                 292:
                                           fdb
                                                    tcbstack: $FFC0
96DA 9756
                                                    dcb: $FFC0+dcb: ringinbase
  9674
                 293:
                                           oro
9674 9416
                 294:
                                           fdb
                                                    inbuf: $FFC0
9676 0050
                 295:
                                           fdb
                                                    inbufsize: $FFC0
  9680
                 296:
                                                    dcb:$FFCO+dcb:ringoutbase
                                           orq
9680 9306
                 297:
                                           fdb
                                                    outbuf: $FFC0
9682 0050
                 298:
                                           fdb
                                                    outbufsize:$FFC0
  9684
                 299:
                                           ora
                                                    dcb: $FFC0+dcb: ringoutthreshold
                                                    outbufsize: $FFC0//10
9684 08
                 300:
                                           fcb
                                                    dcb:$FFCO+dcb:linebuf
  968E
                 301:
                                           ora
                                                    linebuf: $FFCO
968E 9466
                 302:
                                           fdb
                                                    dcb: $FFC0+dcb:linebuflen
  96A1
                 303:
                                           orq
                                                    linebufsize: $FFC0
96A1 64
                  304:
                                           fcb
```

```
*** SDOS 1/0 drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
MAL/6800 1.3F: 96A1 SDOSDRIVERS
01/14/83 11:39:33; Page 104; Form 1
                                          VT DCBs
IDVTCONFIG.ASM
                305:
                                          orq
                                                   dcb:$FFCO+dcb:clearin
  96F1
                 306:
                                                   sdos+sdos:vtclearin
96F1 7EBDB8
                                           jmp
96F4 7EBDBB
                 307:
                                          jmp
                                                   sdos+sdos:vtclearout.
                                                   sdos+sdos:vttloutbuf
                 308:
96F7 7EBDBE
                                           jmp
                                                   sdos+sdos:vttlgetbuf
96FA 7EBDC1
                 309:
                                           jmo
                                                   sdos+sdos:vtilputbuf
96FD 7EBDC4
                 310:
                                           jmp
9700 7EBDC7
                 311:
                                           jap
                                                   sdos+sdos:vtilgetbuf
                                                   dcb:$FFCQ+dcb:profile
  964F
                 312:
                                           orq
964F 01
                 313:
                                          fcb
                                                   profilenum. MALVT profile name
                                                   dcb: $FFCO+dcb:doneflag
                 314:
                                           ora
  9627
                 315:
                                           fcb
                                                                    device not busy
9627 01
                                                   dcb: $FFC0+dcb: oilquiescent .
  963A
                 316:
                                           OFO
                                           fcb
                                                                  interrupt not expected
963A 01
                 317:
  9724
                 318:
                                           ora
                                                   dcb:$FFCO+dcb:vtsize
                 319:
                                           ifund
                                                   ttytcb
  0001
  9724
                 320: ttytcb
                                           fin
                                                   ttytcb
                 321:
  9724
                 322: tcb:$FFC0
                 323:
                                           fdb
                                                   tcb: $FFC4
9724 9860
                                           fdb
                                                   tcbstack: $FFC0
9726 9756
                 324:
                 325:
                                           fdb
                                                   0,0,0,0,0,0
9728 00000000
                                                   tcb:$FFCO+tcb:scratchpad+dcbpointer
                 326:
  9732
                                           ora
                                                   dcb: $FFC0
9732 9627
                 327:
                                           fdb
                                                   tcb:$FFCO+tcb:size
  9734
                 328:
                                           ora
                                                   env:minstack#2-env:size
9734 0022
                 329:
                                           rab
  9756
                 330: tcbstack: $FFC0
                                                   env:size
  8000
                 331:
                                           rot
                 332:
                                           fcb
                                                   0 .
9756 00
  975D
                 333:
                                           orq
                                                   *-env:cc
  975D
                 334: stack: $FFC0
                                                   tcbstack: $FFC0+env:p
  975C
                 335:
                                           arg
                                                   sdos+sdos:vtedittask
                                           fdb
                 336:
975C BDCA
                                                   trhstack: $FFCO+env:cc
  9757
                 337:
                                           ora
                 338:
                                                    $801m4809
                                                                     set 'E' flag for 6809
9757 00
                                           fcb
  975E
                 339:
                                                   stack: $FFCO+env:cc
                                           orq
   975E
                 340: dcbname: $FFC4
                                                   /LPT:/
975E 4C50543A
                 341:
                                           fcc
9762 00
                 342:
                                           fcb
  0000
                 343:
                                           ifund
                                                   ttydcb
                 345:
                                           fin
                                                    ttvdcb
                 346: dcb: $FFC4
  9763
                 347:
                                           rpt
                                                    dcb:vtsize
   OOFD
                 348:
                                           fcb
9763 00
   9744
                 349:
                                           ora
                                                    dcb: $FFC4+dcb: name
                                                   dcbname: $FFC4
                 350:
                                           fdb
9766 975E
9768 98A2
                 351:
                                           fdb
                                                    dcb: $FFC8
                                                    sdos+sdos:vtdispatch
976A BDE2
                 352:
                                           fdb
                                                    dcb: $FFC4+dcb: reset
                 353:
                                           orq
   9818
                                                    reset: $FFC4
9818 7E9E5A
                 354:
                                           jmo
                 355:
                                           okrts
                                                                     dumo nothina
981B 0C39
   0001
                 356:
                                           if
                                                    m6800!m6801
                 357:
981D 01
                                           nop
                 358:
                                           fin
                                                    ilputdev: $FFC4
981E 7E8D2C
                 359:
                                           jmp
                 360:
                                                    ilgetdev: $FFC4
9821 7E8D35
                                           ino
```

```
MAL/6800 1.3F: 9824 SDOSDRIVERS
                                           *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
                                          VT DCBs
01/14/83 11:39:33; Page 105; Form 1
10VTCONFIG. ASM
                                                                    no extra control calls defined
9824 7E8EDB
                 361:
                                                   illdeviceop
                                           jmp
                                                                    no extra status calls defined
9827 7E8EDB
                 362:
                                           jap
                                                   illdeviceop
982A 7E8D3E
                 363:
                                           jmp
                                                   tlcheckready: $FFC4 go check for acia ready
                 364:
                                                   dcb: $FFC4+dcb:outputtoblk
  9804
                                           orq
  0000
                 345:
                                          i fund
                                                   ttytimeouts
                 367:
                                          Fin
                                                   ttytimeouts
  9804
                 368: outputtoblk:$FFC4
9804 980C
                 369:
                                           fdb
                                                   inputtoblk: $FFC4
9804 0000
                 370:
                                          fdb
9808 BDD9
                 371:
                                           fdb
                                                   sdos+sdos: vtoutputto
                                                   dcb: $FFC4.
980A 9743
                 372:
                                           fdb
  980C
                 373:
                                           orq
                                                   dcb:$FFC4+dcb:inputtoblk
  980C
                 374: inputtoblk:$FFC4
                                           fdb
                                                   outputtoblk: $FFC8
980C 9943
                 375:
                                           fdb
980E 0000
                 376:
                                           fdb
                                                   sdos+sdos:vtinputto
9810 BDD4
                 377:
                 378:
                                           fdb
                                                   dcb:$FFC4
9812 9763
  9814
                 379:
                                           ora
                                                   dcb: $FFC4+dcb: tcb
9814 9860
                 380:
                                           fdb
                                                   tcb:$FFC4
                                                    dcb: $FFC4+dcb: taskstack
                 381:
  9816
                                           org
                 382:
                                                   tcbstack:$FFC4
9816 9892
                                           fdb
                                                    dcb:$FFC4+dcb:ringinbase
                 383:
  9780
                                           ora
97B0 951A
                 384:
                                           fdb
                                                   inbuf: $FFC4
97B2 0000
                 385:
                                           fdb
                                                   inbufsize: $FFC4
  97BC
                 386:
                                                   dcb:$FFC4+dcb:ringoutbase
                                           orq
                 387:
                                           fdb
                                                    outbuf: $FFC4
97BC 94CA
                 388:
                                           fdb
                                                   outbufsize: $FFC4
978E 0050
  9700
                 389:
                                           ora
                                                    dcb:$FFC4+dcb:ringoutthreshold
9700 08
                 390:
                                           fcb
                                                   outbufsize: $FFC4//10
                                                    dcb: $FFC4+dcb:linebuf
                 391:
  97CA
                                           orq
97CA 951A
                 392:
                                           fdb
                                                   linebuf: $FFC4
                                                    dcb:$FFC4+dcb:linebuflen
                 393:
  97DD
                                           ora
97DD 00
                 394:
                                           fcb
                                                   linebufsize: $FFC4
                                                    dcb: $FFC4+dcb:clearin
  982D
                 395:
                                           oro
                 396:
                                                   sdos+sdos:vtcleario
982D 7EBDBB
                                           jap
                                                    sdos+sdos:vtclearout
9830 7EBD88
                 397:
                                           jap
                 398:
                                                    sdos+sdos:vttlputbuf
9833 7EBDBE
                                           jap
9836 7E8DC1
                 399:
                                           ind
                                                    sdos+sdos:vttlgetbuf
9839 7E8DC4
                 400:
                                                   sdos+sdos:vtilputbuf
                                           jap
983C 7EBDC7
                 401:
                                           ind
                                                    sdos+sdos:vtilgetbuf
                 402:
                                                    dcb: $FFC4+dcb:profile
  978B
                                           orq
                 403:
                                                    profilenum.MALLPT profile name
9788 09
                                           fcb
                                                    dcb: $FFC4+dcb: doneflag
  9763
                 404:
                                           orq
9763 01
                 405:
                                           fcb
                                                    1
                                                                     device not busy
                 406:
                                                    dcb: $FFC4+dcb: oilquiescent
  9776
                                           oro
9774 01
                 407:
                                           fch
                                                                     interrupt not expected
                                                    dcb:$FFC4+dcb:vtsize
  9860
                 408:
                                           orq
  0000
                 409:
                                           ifund ·
                                                    ttytcb
                 411:
                                           fin 🐬
                                                   ttytcb
                 412: tcb: $FFC4
  9840
                                                    tcb:$FFC8
9860 999F
                 413:
                                           fdb
9862 9892
                 414:
                                           fdb.
                                                    tcbstack: $FFC4
9864 00000000
                 415:
                                           fdb
                                                    0,0,0,0,0,0
  986E
                 416:
                                                    tcb: $FFC4+tcb:scratchpad+dcbpointer
                                           org
986E 9763
                 417:
                                           fdb
                                                    dcb: $FFC4
```

```
MAL/6800 1.3F: 986E SDOSDRIVERS
                                          *** SDOS 1/O drivers for WaveMate Jupiter 11 (C) 1978 SOFTWARE DYNAMICS ***
01/14/83 11:39:33; Page 106; Form 1
                                          VT DCBs
10VTCONFIG. ASM
 9870
                 418:
                                          org
                                                   tcb:$FFC4+tcb:size
                 419:
9870 0022
                                                   env:minstack#2-env:size
                                          rmb
 9892
                 420: tcbstack: $FFC4
  8000
                 421:
                                          rpt
                                                   env:size
9892 00
                 422:
                                          fcb
                                                   0
                 423:
  9899
                                          orq
                                                   *-env:cc
 9899
                 424: stack: $FFC4
                 425:
                                                   tcbstack: $FFC4+env:p
  9898
                                          org
9898 BDCA
                 426:
                                          fdb
                                                   sdos+sdos:vtedittask
                                                   tcbstack: $FFC4+env:cc
  9893
                 427:
                                          oro
9893 00
                 428:
                                                   $80106809
                                                                    set 'E' flag for 6809
                                          fcb
                 429:
  989A
                                          orq
                                                   stack: $FFC4+env:cc
  989A
                 430: dcbname:$FFC8
989A 48595459
                 431:
                                          fcc
                                                   /HYTYPE:/
98A1 00
                                                   ŏ
                 432:
                                          fcb
  0000
                 433:
                                          i fund
                                                   ttydcb
                 435:
                                                   ttydcb
                                          fin
  98A2
                 436: dcb:$FFC8
  OOFD
                 437:
                                                   dcb:vtsize
                                          rpt
98A2 00
                 438:
                                          fcb
                                                   dcb:$FFC8+dcb:name
  98A5
                 439:
                                          orq
98A5 989A
                 440:
                                          fdb
                                                   dcbname: $FFC8
98A7 8FEB
                 441:
                                          fdb
                                                   nextdevicedcb
98A9 BDE2
                 442:
                                          fdb
                                                   sdos+sdos:vtdispatch
                 443:
                                                   dcb:$FFC8+dcb:reset
 9957
                                          org
                 444:
                                                   reset: $FFC8
9957 7E9E69
                                           jmp
995A 0C39
                 445:
                                          okrts
                                                                    dump nothing
                                          if
  0001
                 446:
                                                   m6800!m6801
9950 01
                 447:
                                          noo
                 448:
                                          fin
995D 7E8D45
                                                   ilputdev: $FFC8
                 449:
                                          jmp
                                                   ilgetdev: $FFC8
9960 7E8D4E
                 450:
                                           jap
                                                   illdeviceop
9963 7EBEDB
                 451:
                                                                    no extra control calls defined
                                          jmp
9966 7E8EDB
                                                   illdeviceop
                                                                    no extra status calls defined
                 452:
                                           jap
9969 7E8D57
                 453:
                                                   tlcheckready:$FFC8 go check for acia ready
                                          jap
                 454:
                                                   dcb:$FFC8+dcb:outputtoblk
  9943
                                          ora
 0000
                 455:
                                                   ttytimeouts
                                          ifund
                 457:
                                           fin
                                                   ttytimeouts
 9943
                 458: outputtoblk:$FFC8
9943 994B
                 459:
                                           fdb
                                                   inputtoblk: $FFC8
9945 0000
                 460:
                                          fdb
9947 BDD9
                 461:
                                           fdb
                                                   sdos+sdos:vtoutputto
                 462:
9949 98A2
                                                   dcb:$FFC8
                                          fdb
  994B
                 463:
                                                   dcb: $FFC8+dcb:inputtoblk
                                           arg
  994B
                 464: inputtoblk:$FFC8
994B 93C0
                 445:
                                           fdb
                                                   nexttimeout
                 466: nexttimeout
                                                   ttytimeouts
 9608
                                          set
994D 0000
                 467:
                                           fdb
994F BDD&
                 468:
                                          fdb
                                                   sdos+sdos:vtinputto
9951 98A2
                 469:
                                          fdb
                                                   dcb: $FFC8
  9953
                 470:
                                          ora
                                                   dcb:$FFC8+dcb:tcb
9953 999F
                 471:
                                          fdb
                                                   tcb: $FFC8
  9955
                 472:
                                                   dcb: $FFC8+dcb:taskstack
                                          ora
9955 99D1
                 473:
                                          fdb
                                                   tcbstack:$FFC8
  98EF
                 474:
                                                   dcb:$FFC8+dcb:ringinbase
                                          orq
```

```
MAL/6800 1.3F: 98EF SDOSDRIVERS
                                          *** SDOS 1/D drivers for WaveMate Jupiter 11 (C) 1978 SOFTWARE DYNAMICS ***
01/14/83 11:39:33; Page 107; Form 1
                                          VT DCBs
IOVTCONF16.ASM
98EF 956A
                 475:
                                          fdb
                                                   inbuf: $FFC8
98F1 0050
                 476:
                                          fdb
                                                   inbufsize: $FFC8
 98FB
                 477:
                                          orq
                                                   dcb:$FFC8+dcb:ringoutbase
                 478:
98FB 951A
                                          fdb
                                                   outbuf: $FFC8
98FD 0050
                 479:
                                          fdb
                                                   outbufsize: $FFC8
  98FF
                 480:
                                          ora
                                                   dcb: $FFC8+dcb: rinaoutthreshold
                 481:
                                                   outbufsize: $FFC8//10
98FF 08
                                          fcb
  9909
                 482:
                                                   dcb: $FFC8+dcb:linebuf
                                          ora
                 483:
                                                  linebuf: $FFC8
9909 95BA
                                          fdb
                 484:
                                                   dch: $FFC8+dcb: linebuflen
  991C
                                          ora
                 485:
991C 64
                                                   linebufsize:$FFC8
                                          fcb
  996C
                 486:
                                          org
                                                   dcb: $FFC8+dcb:clearin
996C 7EBDB8
                 487:
                                                   sdos+sdos:vtclearin
                                          jap
996F 7EBDBB
                 488:
                                                   sdos+sdos:vtclearout
                                          jmp
9972 7EBDBE
                 489:
                                                   sdos+sdos:vttloutbuf
                                          imo
9975 7EBDC1
                 490:
                                                   sdos+sdos:vttlgetbuf
                                          jap
9978 7EBDC4
                 491:
                                          jmp
                                                   sdos+sdos:vtilputbuf
997B 7EBDC7
                 492:
                                                   sdos+sdos:vtilgetbuf
                                          jap
  98CA
                 493:
                                                   dcb:$FFC8+dcb:profile
                                          ora
98CA 01
                 494:
                                                   profilenum.MALVT profile name
                                          fcb
                 495:
 98A2
                                          ora
                                                   dcb: $FFC8+dcb:doneflag
98A2 01
                 496:
                                                                    device not busy
                                          fcb
 9885
                 497:
                                          ora
                                                   dcb:$FFC8+dcb:oilquiescent
9885 01
                 498:
                                          fcb
                                                                    interrupt not expected
  999F
                 499:
                                                   dcb: $FFC8+dcb: vtsize
                                          ora
                 500:
  0000
                                          ifund
                                                   ttvtcb
                 502:
                                                   ttytcb
                                          fin
  999F
                 503: tcb: $FFC8
999F 0000
                 504:
                                          fdb
                                                  nexttcb
99A1 99D1
                 505:
                                          fdb
                                                   tcbstack:$FFC8
99A3 00000000
                506:
                                          fdb
                                                   0,0,0,0,0,0
                 507:
  99AD
                                                   tcb:$FFC8+tcb:scratchpad+dcbpointer
                                          ora
99AD 98A2
                 508:
                                          fdb
                                                   dcb: $FFC8
                 509:
                                                   tcb: $FFC8+tcb:size
  99AF
                                          ora
99AF 0022
                 510:
                                                   env:minstack#2-env:size
                                          rab
  99D1
                 $11: tcbstack: $FFC8
  8000
                512:
                                                  env:size
                                          rpt
99D1 00
                 513:
                                          fcb
  9908
                 514:
                                                   #-env:cc
                                          orq
  9908
                 515: stack: $FFC8
  9907
                 516:
                                                   tcbstack: $FFC8+env:p
                                          orq
99D7 BDCA
                 517:
                                          fdb
                                                   sdos+sdos:vtedittask
                                                   tcbstack: $FFC0+env:cc
  9902
               - 518:
                                          arq
9902 00
                 519:
                                          fcb
                                                   $801m6809
                                                                    set 'E' flag for 6809
  9909
                 520:
                                                   stack: $FFC8+env:cc
                                          ora
                 521:
                                          fin
                                                   iodriverram
                 522:
                 523:
  9377
                 607: DISKDCBS SET
                                      NEXTDISKDOB
  0008
                 608: NDRIVES SET
                                      ND1SKDCBS
                 609: DEVICEDOBS
  8FEB
                                      SET
                                                               NEXTÓEVICEDOB
  9608
                 610: TIMEOUTQUEUE
                                      SET
                                                               NEXTTIMEOUT
  0009
                 611: NTIMEOUTBLOCKS SET
                                                               NT1MEDUTS
  9724
                                      EQU
                                                               TTYTCB
                 612: TASKQUEUE
  8DFB
                 613: PROFILECHAIN
                                      EQU
                                                               NEXTDPB
```

```
MAL/6800 1.3F: 99D2 SDOSDRIVERS
                                      *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
01/14/83 11:39:33; Page 108; Form 1
                                       FCBS, IOCBS, INTERRUPT STACK
IOJUPITER. ASM
               615: *
                             FCBS. (MUST PRECEDE TOCBS)
               616: $
               617: $
 02A4
               618: FCBS
                             RPT FCB:SIZE*(NIOCHANNELS+2*NDRIVES+NMAGICFCBS)
9909 00
               619:
                             FCB 0
               620: $
               621: $
                             IOCBS
               622: $
 0110
               623: IOCBS
                             RPT
                                   IOCB:SIZE*NIOCHANNELS
9C7D 00
                624:
                             FCB
 8000
               625: IOCBPOINTERS
                                  RPT
                                                           NIOCHANNELS
9D8D 9C7D
               626:
                             FDB
                                  IOCBS+IOCB:SIZE*(*-IOCBPOINTERS)/2
               628: $
               629: INTERRUPTSTACK EQU : STACK SPACE FOR INTERRUPT ROUTINES
 9D9D
               630:
9D9D DEFE
               631: INTSETUP LDX SYSP6
909F 868F
                             LDAA #(STACKUNSWITCHEDDEVICEPOLL)/256 = WHERE TO GO ON INTERRUPT
               632:
9DA1 C618
               633:
                             LDAB #(STACKUNSWITCHEDDEVICEPOLL)\256
9DA3 A7FE
               634:
                             STAA SYSIIRQ+1, X
                             STAB SYSTIRQ+2, X
9DAS E7FF
               635:
                             OKRTS
9DA7 0C39
               636:
               637:
 003A
               638:
                             RPT
                                   INTERRUPTSTACKSIZE-(*-INTERRUPTSTACK)
9DA9 00
               639:
                             FCB
               640:
               641: INTERRUPTSTACKEND; end of interruptstack
 9DE3
```

```
MAL/6800 1.3F: 9DE2 SDOSDRIVERS
                                          *** SDOS I/O drivers for WaveMate Jupiter 11 (C) 1978 SOFTWARE DYNAMICS ***
01/14/83 11:39:33; Page 109; Form 1
                                          *** DRIVER INIT (ONCE-ONLY) CODE ***
10JUPITER. ASM
  0000
                 643: 10DRIVERRAM
                                      SET
  0001
                 644: IODRIVERINIT
                                      SET
                                      #-DRIVERBASE
  19E3
                               EQU
                                                               SIZE OF READ-ONLY CODE
  9DE3
                 646: DSKBUFFERPOOL
                                     EQU
  0001
                 647:
                                1F
                                      CLOCK
                 648:
                                INCLUDE
                                                                IOCLOCK.ASM
  0000
                   1:
                                          1F
                                                   10DRIVERBODY
                 201:
                                          FIN
                                                   IODRIVERBODY
  0000
                 202:
                                          IF
                                                   10DR1VERRAM
                 228:
                                          FIN
                                                   IODRIVERRAM
                 229:
                 230:
                 649:
                               FIN
  0000
                 650:
                                IF
                                      BLACKHOLE
                 652:
                               FIN
                                1F
  0000
                 653:
                                      SDLP
                 655:
                               FIN
  0001
                 656:
                                1F
                                      VIRTUALFLOPPY
                 657:
                                INCLUDE
                                                                IOVFD. ASM
  0000
                   1:
                                             IODRIVERBODY
                  57:
                                         FIN
                                                  10DRIVERBODY
  0000
                  58:
                                         1F
                                                  10DRIVERRAM
                 127:
                                 FIN
                                          10DR1VERRAM
  0001
                 128:
                                            - 10DR1VER1NIT
  9DE3
                 129: FDRESTORE
9DE3 CE0C39
                 130:
                                     LDX
                                             #OKRTS
                                                               . do the following once only
                                             FDRESTORE
9DE6 FF9DE3
                 131:
                                     STX
9DE9 CE0000
                 132:
                                     LDX
                                             #0
                                                                reset the PIA(s)
  0002
                 133:
                                     IF
                                             PERSC1
9DEC FFFFA0
                 134:
                                     STX
                                             PERSCI: PIACA
                 135:
                                     FIN
                                             PERSCI
  0002
                 136:
                                     IF
                                             DAMFLOPPY
9DEF FFFF80
                 137:
                                     STX
                                             DAMFLOPPY: PIACA
                 138:
                                     FIN
                                             DAMFLOPPY
9DF2 CEFFFF
                 139:
                                     LDX
                                             #$FFFF
                 140:
                                     IF
  0002
                                             PERSC1
                 141:
                                     STX
9DF5 FFFFA2
                                             PERSCI: PlaDA
                                                                                                  loes not
                 142:
                                     LDAA
9DF8 86A5
                                             #$A5
                                                               see if Persci controller exists
9DFA B7FFA2
                 143:
                                     STAA
                                             PERSCI: PIADA
9DFD 40
                 144:
                                     NEGA
9DFE BBFFA2
                 145:
                                     ADDA
                                             PERSC1: P1ADA
                                                               gives zero IFF Persci exists
                 146:
                                     NEGA
                                                                gives carry IFF Persci exists
9E01 40
9E02 8600
                 147:
                                     LDAA
                                                               form Persci Interrupt Test mask
                                     RORA
                                                                (A)=$80 --> Persci exists
9E04 46
                 148:
                149: EMA #190
9E05 B78FC3
                                     STAA
                                             PERSCIINTERRUPTMASK
                 150:
                                     FIN
                                             PERSC1
  0002
                 151:
                                     1F
                                             DAMFLOPPY
                                     STX
9E08 FFFF82
                 152:
                                             DAMFLOPPY: PIADA
                 153:
9E08 86A5
                                     LDAA
                                             CA#$
                                                               see if DAM Floppy controller exists
9E0D B7FF82
                 154:
                                     STAA
                                             DAMFLOPPY: Plada
                 155:
                                     NEGA
9E10 40
9E11 BBFF82
                 156:
                                     ADDA
                                             DAMFLOPPY:Plada
                                                               gives zero IFF DAM Floppy exists
                 157:
9E14 40
                                     NEGA
                                                                gives carry IFF DAM Floppy exists
9E15 8600
                158:
                                     LDAA
                                             #0
                                                               form DAM Floppy Interrupt Test mask
                 159:
                                     RORA
9E17 46
                                                                (A)=$80 --> DAM Floppy exists
```

	9E18 - SDOSDRIVE :33; Page 10; F				or WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
	:33! Lade (In)! I	-nlw T	*** UK1	IVER INIT (ONCE-	-nuril fine ***
IOVED. ASM		AATO	n Aur		24607
9E18 878FD3	160:	STAA	-1/2"	LOPPYINTERRUPTM	185K
0545 055007	161:	FIN		LOPPY	
9E1B CE2C07	162:	LDX		10110000000111	
0002	163:	1F	PERS		
9E1E FFFFA0	164:	STX		CI:PIACA	*
9E21 B6FFA3	165:	LDAA			clear possible interrupt
	166:	FIN	PERS		
0002	167:	IF	DAME	LOPPY	
9E24 FFFF80	168:	STX	Damf	LOPPY: PIACA	
9E27 B6FF83	169:	LDAA	DAMF	LOPPY:PIAD8 c	:Tear possible interrupt
	170:	FIN	DAMF	LOPPY	·
9E2A 0C39	171:	OKRTS	ì		
	172:	FIN	IODR	IVERINIT	
0000	173:		IDDRIVE		
	410:	FIN	IODRIVE		·
0000	411:	IF.	IODRIVE	· ·	•
****			IVERPOL		
0000			RIVERBOD		
VVV0			IVERBOD		
		IN IUUN	TAEVOOR	Ť	
	996:				. '
	997:				
••••		FIN			
0001			RAGEDEMO		
		INCLUDE			ISTOREDEMON. ASM
0000	1:		IF	IODRIVERBODY	
	781:		FIN	IODRIVERBODY	
0000	782:		IF	IDDRIVERPOLL	(16666/100 ex CPUSpeed)
	807:	,	FIN	IODRIVERPOLL	(166667100 of Cros pack
0001	808:		IF	IODRIVERINIT	
9E2C	809: WDCINIT		;LDX	#OKRTS	INITIALIZE 7710 INTELLIGENT CONTROLLER
9E2C CE0C39	810:		ĹDX	#OKRTS	
9E2F FF9E2C	811:		STX	WDCINIT	SO WE DON'T DO THIS MORE THAN ONCE!
•	812:		; JMP	WDCRESET	INITIALIZE 7710 INTELLIGENT CONTROLLER
9E32 7E8A36	813:		JMP	WDCRESET	AND THE PARTY OF T
0001	814:		IF	USEDENONASCLOC	v ·
9E35	815: CLOCKRESE	Т	••	7	
, 200	816:		;LDD	#2+15555	ASSUME 2MHZ CPU SET INTERVAL IN LOW LATCH ASSUME 2MHZ CPU LEFT CREAT VALUE (850 KC CLOCK)
9E35 C634 1 5	6817:28		LDAB	#(2*16666)&\$FF	Hodding Ziniz Gib
	818:34		LOAA	#(2*16666)/256	The Control of the Control
1531 noos 101	819:				CET INTERNAL IN LIGHT LATER (850 KC CLOCK)
0570 57558#			;STB	VIATILL	; SET INTERVAL IN LOW LATCH
9E39 F7FF44	820:		STAB	VIATILL	I fine little I Ather Alice Taite Children
0570 Daceto	821:		;STA	VIATICH	; LOAD HIGH LATCH AND INTO COUNTER
9E3C B7FF45	822:		STAA	VIATICH	e .
	823:		; LDA	#201000000	·
9E3F 8640	824:		LDAA	#201000000	,
	825:		;STA	VIAACR	; SET CONTINUOUS INTERRUPTS FROM COUNTER
9E41 B7FF4B	826:		STAA	VIAACR	
	827:		;LDA	#%11000000	
9E44 86C0	828:		LDAA	#%11000000	
	829:		;STA	VIAIER	; ENABLE INTERRUPT REQUEST FROM CLOCK
9E46 B7FF4E	830:		STAA	VIAIER .	
9É49 OC39	831:		OKRTS		
	832:		FIN	USEDEMONASCLOC	K
	833:		FIN	IODRIVERINIT	
0000	834:		IF	IODRIVERRAM	
4					

MAL/6800 1.3F: 9E49 SDOSDRIVERS *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS *** 01/14/83 11:39:33: Page 111: Form 1 *** DRIVER INIT (ONCE-ONLY) CODE *** IOSTOREDEMON. ASM 886: FIN **IODRIVERRAM** ; UNEXPECTED EOF 887: END 661: FIN 662: INCLUDE IOVTCONFIG.ASM 0000 1: i f iodriverbody 30: fin iodriverbody 0001 31: i f iodriverinit 9E4B 32: reset:\$FFC0 9E48 8603 33: ldaa #200000011 reset ACIA 34: staa \$FFC0 9E4D B7FFC0 #%10010101 in int; 8 D + 1 S; no parity; /16 9E50 8695 35: Idaa 9E52 B7FFC0 \$FFC0 36: staa 9E55 B6FFC1 37: Idaa \$FFC1 clear any input interrupt 9E58 0C39 38: okrts 39: fin iodriverinit 0000 40: if iodriverbody 57: iodriverbody fin 0001 58: if iodriverinit 9E5A 59: reset: \$FFC4 #%00000011 9E5A 8603 60: ldaa reset ACIA \$FFC4 9E5C B7FFC4 61: staa #%10010101 in int; 8 D + 1 S; no parity; /16 9E5F 8695 62: ldaa 9E61 B7FFC4 63: staa \$FFC4 9E64 B6FFC5 64: Idaa \$FFC5 clear any input interrupt 9E67 0C39 65: akrts 66: fin iodriverinit 0000 67: if i odri verbodv 84: fin iodriverbody 0001 85: if iodriverinit 9E69 86: reset:\$FFC8 9E69 8603 ldaa #200000011 reset ACIA 88: staa \$FFC8 9E6B B7FFC8 89: ldaa #%10010101 in int; 8 D + 1 S; no parity; /16 9E6E 8695 9E70 B7FFC8 90: staa \$FFC8 9E73 B6FFC9 91: ldaa \$FFC9 clear any input interrupt 9E76 0C39 92: okrts 93: fin iodriverinit 0000 94: if iodriverbody 111: fin iodriverbody 0000 112: if iodriverpoll 193: fin iodriverpolI

0000

194:

521:

522: 523: if

fin

iodriverram

iodriverram

MAL/6800 1.3F	: 9E76 SDOS	DRIVERS	*** SDOS I/	O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***
01/14/83 11:3	9:33; Page :	112; Form 1	*** DRIVER	INIT (ONCE-ONLY) CODE ***
IOJUPITER.ASM				
0000	664:	IF	*>/VTDRIVER	
	666:	ELSE		
9E78 0788	667:	RMB	VTDRIVER-*	•
	668:	FIN	*>/VTDRIVER	•
081D	669: DSKF	POOLSIZE	EQU	*-DSKBUFFERPOOL
0000	670:	IF	DESTREDPOOLSTZE	E>>DSKPOOLSIZE
	672:	FIN		
2200	673:	EDU	*-CODE	SO I CAN SEE HOW BIG THE WORLD IS
0000	674:	END		
				•

MAL/6800 1.3F: 9E78 SDOSDRIVERS 01/14/83 11:39:33; Page 113; Form 1

*** SDDS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***

Symbols Sorted by Name

IOJUPITÉR.ASM

Symbols Sorted by Name:

** /0701	:BPS/0100	*PONTON CD/OAS		TANAL IVA	*WAME! UDDA \UVU)	*#ATA / 0000
		1 CONTROLLER/ 70)	., 	1616/0778	*DUULTULLIY VVVV	:HEADCHAIN/9155	i Driin/ VVVV
: UGD/7200 .10WF00WAT/AAAA	: UCDNUMBER/VVV	3 .MEVTEHATNIAAA4	: NV 1 A CWOUDEV \ AA	/VZ -DCDCC1/AAAA	**************************************	TOP/AAA4	- MACCOMAT /AAA4
***************************************	TDI F6/8060	THE VICHHIMANA	1 58 16 666	irenali/vvvv	1371/0010	:TPC/0001 *ALTERPROFILE:CO *ALTERPROFILE:EE *ALTERPROFILE:SI	:WNFURMAI/VVV.
#ALIEKPKUPILE:CL	10LES/00VD	THE TERRETARIES OF	LEN/ UVO8	#ALTERPRUPILE:U	.5EW/ 0007	#ALIEKPKUPILE:LU	LU15F/VVV/
TAL TERPRUFILE: CP	1DLES/0005	TAL TERPRUFILE: CH	'LEN/0000	#ALIERPRUFILE:CH	'SEN/0001	TAL TEXPROFILE: EE	DL1DLES/0013
*ALTERPROFILE:EE	OLLEN/000E	*ALTERPROFILE:E	OLSEQ/000F	*ALTERPROFILE:RU	JWD1SP/0004	*ALTERPROFILE:SI	ZE/0014
						*ASCII: DC2/0012	
						*ASCII:ETB/0017	,
		*ASCII:6S/001D					ASCII:NAK/0015
#ASCII:NULL/0000	· ,	*ASCII:RS/001E	*ASCII:RUBDUT/00)7F	#ASCII:SI/OOOF	#ASCII:SD/000E	#ASCII:SOH/0001
#ASCII:SPACE/002	0	*ASCII:STX/0002	*ASCII:SUB/001A	*ASCII:SYN/0016	*ASCII:US/001F	ASCII:VT/000B	
BADINTERRUPTCOU	NT/8FE9	*BASICFLAGS/00F)	BCDTOASC/84FE	BLACKHOLE/0000	*BDOT: PARAMSIZE/	0007
*BUILDMAP/85CF	BUILDMAP1/85D4	BUILDMAP2/85D8	BUILDMAP3/85DD	BUILDMAP4/85E9	*CC:ACTIVATIONCH	(/001D	
							16
*CC:COLDRING/002	0	CC: DEVICESPECIA	ICOP/0010	CC:DISMOUNTDISK	(/0011	*CC:CLROUTPUT/00 *CC:DUMPBUFFERS/	0001
#CC: FCHD/0010	CC:FDRMAT/0015	*CC: IN FS/0012	ACC: KILLENABLE/	0023	*CC:KILLPROOF/O	>22	
*CC:MULTISECTORR	FAD/0013	tor: MIN TISECTOR	RITE/OO14	#CC:NDECHD/0011	*CC: NDWRAP/001F	*CC:POSITION/OÓO	ń
#CP . POSITIONTOEN	7100\d	#CP . SETACTRI DCK	/AA14	*CC.CETEYCEPTION	1/0077	*CC:POSITION/000 *CC:SETFIELDSIZE *CC:SETMAPALGORI *CC:SETTIMESHARE	/na1#
*CO.! GGITTONIGEN	AA1A	+PP. CETETI EDDAT	10014	*CC.GCTCXCCTTTO	2000	.+CC.:GCTMADALCOTT	7 VV 1D TUM /6015
*CC.GCTDADAWC/AA	001V	*CO.OCTIVATED	/V10	*CC:SCHILLSIZE/	NIT / AA 1 7	400. SETTIMECUADE	10031
#LL:3C(FMRHN3/VV	'16 400-000 0000100 //	**************************************	**************************************	*CC:SCIVENDITUE(**************************************	*CG:GETTINEONNE	/ VV31 /AATA
						*CC:WRITEANOWAIT	
							CCB: CURRENTDCB/002
CCB: CYL/0005	CCB: DAMFLOPPY/9	/045	EUB: DRIVE/0004	EÇB:LASTEYL/000) 6	CCB:PERSCI/9017	-
CCB: READSECTOR/	0018	CCB: RESET/000C	CCB: RESTURE/00	12	CCB: SEEK/0018	CUB:SETSEEK/001	5
*CCB:SIZE/002E	CCB:STARTID/000)7	CCB:STATUS/0009		CCB:TIMEOUT/00)3	CCB:TIMEOUTBLK/002
CCB: VERIFYSECTO	R/0021	CCB: WRITESECTOR	₹/001E	*CHANGED/0000	CHECKDISKREADY	/8762	CLOCK/0001
CLOCKBUFFER/8FF	4	CLOCKCLOSE/842F		CLOCKDATE/84D7	CLOCKDCB/8FEB	CLOCKDRIVER/841	5
‡CLOCKFRACTIDN/8	FFA	CLOCKGETTD/848	}	CLOCKGETTD1/840	30	CLOCKGETTD2/84C	5 CCB:TIMEDUTBLK/002 CLOCK/0001 5 D CLOCKRB2/8484 1 B 000 /0013
CLOCKMAKEXX/852	2	CLOCKOPEN/842F	CLOCKPFRESTART	'842F	CLOCKRA1/84A6	CLOCKRB1/8475	CLOCKRB2/8484
CLOCKREADA/848D	•	CLOCKREADB/8469	}	CLDCKRESET/9E3S	ĩ	CLDCKSPRUNG/843	1
CLDCKSTATUS/843	4	CLOCKSTR/8FFB.	CLOCKTIME/850A	CLOCKWB1/8451	CLOCKWB2/845F	CLOCKWRITEB/844	3 '
*CNFG: ATTNCHECK/ *CNFG: DRIVERBASE *CNFG: INTENABLE/ *CNFG: IOCBPOINTE *CNFG: TASKQUEUE/ *CNFG: VTSIZE/002	000B	*CNFG: DEBUGGER/)00 D	*CNFG: DEVICEDOBS	5/0002	#CNFG:DISKDCBS/0	000
*CNFG:DRIVERBASE	/000F	*CNFG:DSKBUFFERF	100L/0007	*CNF6:DSKPOOLSIZ	E/0009	*CNFG: INTDISABLE	/0013
*CNFG:INTENABLE/	0016	*CNF6: INTERRUPTS	STACK/001C	*CNFG: INTRTI/00	19	*CNFG: INTSETUP/0	011
*CNEG: LOCRPOINTE	RS/0004	*CNFG: IDINTPOLL	001F	*CNEG: MTPRIMS/00	78	*CNEG: NICCHANNEL	R/000A
#PNEG.TACKOHEHE/	0020	CNEC.TIMEDUTE	¥T/0022 ·	#CNEC. VIDEBUG/04	124	*PMFG: VTPRDETLES	/0024
*CNCG.UTC17E/002	Δ .	PNECTABLE / QED1	707E /0400	rni nDilic. Lito ioc	:00	COLORING: H19REV	. V. L. I EDCEUTREN/GEGA
CONRAC/0000	"CONTEXTBLOCK:S	TZE/0007	COPYDEBTOCEB/8	SAS	COUNTCOMMAND/8	ooroninoini/nr/	DAMFLOPPY/0002
DAMFLDPPY: ABORT		DAMFLOPPY:ABORT		DAMFLOPPY:ISSUE		DAMFLOPPY:PIACA	
				DAMFLOPPY: PIADI			'
DAMFLOPPY: PIACE		DAMFLOPPY: PIADA				DAMFLOPPY: READS	
DAMFLOPPY: READS		DAMFLOPPY: READS	1	DAMFLOPPY: RESET		DAMFLOPPY: RESTO	
DAMFLOPPY: SEEK/		DAMFLOPPY: SETS		DAMFLOPPY: STATI		DAMFLOPPY:TIMED	
DAMFLOPPY: VERIF			STS/FF84	DAMFLOPPY: WDDAT	,	DAMFLOPPY: WDSEC	
DAMFLOPPY: WDTRA				DAMFLOPPY: WRITE			
DAMFLOPPYINTERR		*DATE/84D5	DATE\$/900B		DATE\$:MONTH/900		DATE: YEAR/9011
DAY/8FF7		DCB: \$FFC4/9763				*DCB:ACTDISP/007	
*DCB:ACTIVATION/	00ED	*DCB:BACKGROUND/	3-	DCB:BEEPCOUNT/C)05E	*DCB:CALLERIOCB/	0086
*DCB: CALLERSCB/0	026	#DCB:CLEAR/0094	*DCB:CLEARIDLES	/0098	DCB:CLEARIN/00	CA	*DCB:CLEAROUT/OOCD
*DCB:CLEARSL/009	3	*DCB:COL/004E	*DCB:COLCT/000D	*DCB: COLDISP/009	72	*DCB:COLORING/00	76
*DCB:CONTROL/OOC	1	*DCB: CTLCCOUNT/)00E	*DCB:CTLCKILL/00	75	*DCB:CURSORLOST/	0040
*DCB:DISPLAYDEPT	H/006A	*DCB:DISPLAYWIDT	H/0049	DCB: DONEFLAG/00	000	*DCB:DRIVER/0007	
*DCB:EDITFLAGS/0			*DCB: EEOLIDLES/	•	*DCB: EEOL'SL/009		*DCB:ENDCOL/0048
#DCB:EXCEPT/0082		*DCB:FIÈLDEND/OC		*DCB:FIELDWIDTH/		*DCB:IDLECOUNT/O	
		,					**

*** SDDS I/O drivers for WaveMate Jupiter II (C) 1978 SDFTWARE DYNAMICS *** MAL/4800 1.3F: 9E78 SDDSDRIVERS Symbols Sorted by Name 01/14/83 11:39:33; Page 114; Form 1 IOJUPITER. ASM *DCB:ILDATA/0062 *DCB: IILSPL/0011 *DCB:IDLETRIGGER/009F *DCB:IILLFLGS/0012 #DCB: ILPUTDEV/00BB *DCB:ILPUTBUF/00D6 *DCB: ILGETDEV/00BE *DCB: ILGETBUF/00D9 *DCB:ILSW/000C DCB:INPUTTDBLK/00A9 *DCB: ISDEVICEREADY/00C7 DCB: LASTERROR/0001 *DCB:ILROOM/00B0 *DCB:LINEBUFPTR/000F DCB:LINEBUFLEN/007A *DCB:LINEBUFCDUNT/0066 DCB:LINEBUF/0067 DCB: NEXTDCB/0005 DCB:NAME/0003 #DCB:NEWSTATUS/0079 *DCB:LINEFLAGS/005F *DCB:POSN/OOBC *DCB:POSNIDLES/0090 *DCB: DPENCDUNT/00B5 DCB: DUTPUTTDBLK/00A1 DCB: DILQUIESCENT/0013 DCB:PRDFILE/0028 *DCB:READAERR/0072 *DCB:PRDCESSID/00B3 *DCB:POSNSL/008B DCB:RESET/00B5 DCB:RINGINBASE/004 *DCB:READPERIDD/00B9 *DCB:REMINDERS/000A *DCB:READCOL/006F *DCB:RINGINLEN/004F *DCB:RINGINRDDM/004B *DCB:RINGINFETCH/0045 *DCB:RINGINDATA/0047 *DCB:RINGOUTFETCH/0051 *DCB:RINGDUTDATA/0053 DCB:RINGDUTBASE/0059 *DCB:RINGINSTDRE/0049 DCB:RINGOUTTHRESHDLD/005D *DCB:RINGDUTSTDRE/0055 *DCB:RINGOUTLEN/005B *DCB:RINGDUTRDDM/0057 DCB:SIZE/0009 *DCB:STATUS/OOC4 *DCB:RDW/006D *DCB:ROWCT/0071 *DCB:RDWDISP/0091 *DCB:SCB/0014 *DCB:TLCLDSEDEV/00BB DCB:TCB/00B1 DCB:TLBUFFER/007D *DCB:TABS/OODC DCB: TASKSTACK/00B3 *DCB:TLPUTBUF/00D0 *DCB:TLRDOM/0064 *DCB:TLGETBUF/00D3 *DCB:TLDATA/0060 DCB: XLATESTATE/003D *DCB:WELPDS/0070 DCB:VTSIZE/OOFD *DCB:WELFLAGS/000B *DCBEDITFLAGS:INTD/0020 *DCBEDITFLAGS: HCEDIT/0040 *DCBEDITFLAGS:ESC/0001 *DCBEDITFLAGS: ACTIVATE/0010 *DCBEDITFLAGS: WRAP/0004 *DCBEDITFLAGS: READB/0002 *DCBEDITFLAGS:KILLP/00B0 *DCBEDITFLAGS: PAGE/0008 *DCBIILLFLGS:CTLT/0040 *DCBIILLFLGS:CTLB/0020 *DCBIILLFLGS:CTLG/0008 *DCBEXCEPT:SEDIT/0001 *DCBIILSPL:CONTINUE/0008 *DCBIILSPL:DISCARD/0004 *DCBIILLFLGS:ESC/00B0 *DCBIILLFLGS:CTLV/0010 *DCBIILSPL:PAGE/0001 *DCBILSW: ALPHALOCK/0001 *DCBIILSPL:FREEZE/0002 *DCBIILSPL:INTO/0020 DCBNAME: \$FFC0/961E: *DCBILSW:DUTTD/00Q4 *DCBILSW: HCFREEZE/00B0 *DCBILSW:CTLC/0002 *DCBREMINDERS: CTLD/0008 DCBPDINTER/0006 DCBNAME: \$FFC4/975E DCBNAME: \$FFC8/9B9A *DCBREMINDERS:RIP/0010 *DCBREMINDERS: CTLP/0004 *DCBREMINDERS:CTLS/0002 *DCBREMINDERS: INTD/0020 *DCBWELFLAGS:FLDE/0008 *DCBWELFLAGS:FLDW/0004 *DCBWELFLAGS:PREF/0001 *DCBNELFLAGS: ECHD/0020 DESIREDPDOLSIZE/0800 DEBUGSYSCALLHANDLER/B407 DEBUGINTERRUPT/8410 *DCBWELFLAGS:RETYPE/0002 DISKABORT/B76F DISKCDMPL/B804 DISKCDMPLEMENT/87FB DISKDCBS/9377 DISKDDNE/8751 *DEVICEDCBS/8FEB DISKERRDRJ/87C1 DISKERROR/8741 DISKERRDR1/874D DISKDDNE1/8758 DISKDDNEJ/87EC DISKDDNEJ1/87E5 DISKINTERRUPT/86B5 DISKINTDCB/9013 DISKINTCCB/9015 DISKINTDAMFLDPPY.NO/8FDF *DISKINTSERVICE/8FBF DISKINTSETUP/86B9 DISKINTSTART/86CA DISKINTPERSCI.ND/8FCF DISKINTUNEXPECTED/875E DISKREAD/87D4 DISKREAD1/87E1 DISKINTSTARTDAMFLOPPY/86C7 DISKINTSTARTPERSCI/86C2 DISKSETCYLADD/8774 DISKREAD4/87EF DISKSAVEERRLSN/B7C4 DISKSEEKERROR/8735 DISKTIMEDUT1A/8986 DISKTIMEDUT1/89A9 DISKSETCYLADD.1/8776 DISKTIMEDUT/897E DISKWPERR/873B DISKWRITE/8780 DISKWRITE2/8791 DISKTIMEOUTERRDRED/8994 DISKTIMEDUT2/89C1 DIV60DIVIDEND/8FF4 DISKWRITE5/B7B1 DISKWRITE3/87A3 DISKWRITE4/87A7 DIVIDE60L3/8549 DIVIDEBY60/852E DDSEEK/885D DIVIDE60L/B531 DIVIDE60L2/853A

*DPB:DEFDEPTH/0005 *DPB:NEXT/0002 *DPB:DUTTD/0007 *DPB:PROFILE/0000 DPB:SIZE/001D *DPB:TLPUTDEV/000C *DPBFLAGS: HCEDIT/0010 *DRIVER: CLOSE/0002 *DRIVER:DISKCONTRDL/000A *DRIVER:DISKWAIT/0006 *DRIVER:READA/0004 *DRIVER:STARTIO/0018 DRIVERBASE/B400 DSKINFO: ERRLSN/003F *DSKINFO:MAPLSN/0024 DSKINFO: NBPS/0009 *DSKINFD:NLSN/001B DSKINFD: DPSCDUNT/003C DSKINFD: SECTDRDB/002B

DSKINFD: WRITEERRCNT/0034

DVDAT: NBPS/0000

*DVDAT:NTPC/0004

*DVTYP.DISK/0001

*DPB:DEFWIDTH/0004 *DPB:XLATEI/0009 *DPBFLAGS: MAL/0001 *DRIVER: CONTROL/0012 *DRIVER:DISKREAD/0002 *DRIVER: DISKWRITE/0004 *DRIVER: READB/0008 *DRIVER:STATUS/0014 DSKBUFFERPDDL/9DE3 *DSKINFO:LOG2NBPS/0018 *DSKINFO:MIDALLDC/0014 *DSKINFD:NBPSM1/0019 DSKINFO: NSPC/0011 *DSKINFD:RANDMAP/0022 DSKINFD:SEEKERRCNT/0030 DSKINFD: WRITEERRSTS/0036 *DVDAT:NCYL/0006 *DVDAT:WIDTH/0000

*DVTYP.DTAPE/0003

*DPB:SETBACKGROUND/0012 *DPBFLAGS: AUTONL/0008 *DPBFLAGS: DUTPUT/0002 *DRIVER: CREATE/000C *DRIVER:DISKRESET/0000 *DRIVER: DPEN/0000 *DRIVER: RENAME / 000E *DRIVER: WRITEA/0006 *DSKINFO:BADLSN/002D DSKINFD: MAPALGORITHM/0016 *DSKINFD:MINALLOC/0012 *DSKINFO:NCYL/000F DSKINFQ: NSPT/000B DSKINFD: READERRENT/0038 DSKINFO: SEEKERRSTS/0032 DSKPDOLSIZE/081D *DVDAT:NSPC/0002 DVTYP.CLOCK/0008 *DVTYP.DUMMY/000A

*DPB:DVTYP/0001 *DPB:FLAGS/0006 DPB:GPINIT/0015 *DPB:SETCOLDRING/000F *DPBFLAGS: WRAP/0004 *DRIVER: DELETE/0010 *DRIVER:DISKSTATUS/0008 DRIVER: PFRESTART/001A *DRIVER: RESET/0016 *DRIVER: WRITEB/000A *DSKINFO: DIRFCB/0027 *DSKINFD: MAPFCB/0029 *DSKINFO: NBPC/0020 *DSKINFD: NLCN/001E #DSKINFO: NTPC/000D DSKINFD: READERRSTS/003A DSKINFO: SIZE/0042 *DVDAT: DEPTH/0001 1DVDAT: NSPT/0002 DVTYP. CONSDLE/0004 *DVTYP.FILE/0000

MAL/ABOO 1.3F: 9F78 SDDSDRIVERS 1

*ENV: B/0002

*** SDOS I/D drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***

Symbols Sorted by Name

HUEL DOAA	1:01: /2/		TOBILE	1 51/0
01/14/83	11:39:33;	Page	115;	Form
IOJUPITER	ASM			
*DVTYP.PA	RIN/0009			* [

DVTYP.PARQUT/0008 *DVTYP.STAPE/0002

*ERR: BADCMDFORMAT/0066

*ERR: BADLOADRECORD/040C

ENV: CC/0001

DVTYP: TYPE/0000 ENV: MINSTACK/0015

DVTYP.PRINTER/0005

*ERR: BADFILENAME/03FF

*ERR: 8ADPOSITION/03EC

ENV: P/0006

#ERR: ALLDCOCLUSTERS/042B *ERR: BADFILEVERSION/0405 **#ERR: BODTCKSUMFAIL/03E8** *ERR: CANTOPENMUSTCREATE/03FD

*DVTYP.SERIALIN/0007 EDITDATE/1231

***ERR: BRANCHFACTDRSIZE/0435** *ERR: CHBUSY/0407

*DVTYP.SERIALOUT/0006

*ERR: ABNDRMALSTOP/0068

*ERR: BADFNAMESIZE/03F5

*ERR:ATTENTION/0001

*ENV:A/0003

*ERR: BUSYFDRANOTHERPRDCESS/0772 *ERR: CANTGOTO/0067 #ERR: CHTOOBIG/0406

*ERR:CLDSED/0408

#ERR: EOFHIT/03E9

#ERR:FILEISDPEN/03EA

#ERR: IBUFDVERFLOW/0410

*ERR: ILLFILESIZE/0400

#ERR: NLSNGE224/041B

*ERR:NDDISKSPACE/03F7

***ERR: NDTALOADFILE/0404**

*ERR: NDTIMEOUTBLKS/0431

*ERR:RDBUFTODSMALL/041E

*ERR: SERIALNDWRONG/0432

*ERR: WRDNGDISKTYPE/07&E

*FCB:FILESIZE/0011

FDK18MDDNSPT/0059

FDK4MODNSPT/0057

*FILESYSTEMVERSION/0010

GOTOUTPUT: \$FFC8/8F7E

ILGETDEV: \$FFC8/8D4E

ILPUTDEV: \$FFC0/8D13

INBUFSIZE: \$FFC4/0000

INPUTTOBLK: \$FFC4/980C

#IOCB:CURBYTE/000D

IMI7711/0000

FDDRIVE/0048

FDREAD/856D

#ERR: PROFILENOTFOUND/0777

*ERR:SDOSMTPRIMSMISSING/04D0

#ERR:TIMEDINPUTEXPIRED/0776

EXORCISDR/0000 #FCB:DAY/0016

FDCCB/0051

FDDRIVER/8551

FDREAD. 1/856E

FDSETUP1/85CB

#1C:RESET/0002

INBUF: \$FFC0/9416

#IDCB: DRIVER/0009

#ERR: LCNWASNTALLOCATED/03F8

#ERR; CLUSTERSIZELIMITSFILE/041C

EDITYEAR/1982

*ERR: DECRYPTIONKEYSDONTMATCH/0437

ERR: DEVICETIMEDOUT/0412 ERR: DISKSEEK/0417 *ERR: DUPLICATEKEY/0434 *ERR:FILEALREADYDELETED/042C

*ERR:FILEWRTPROT/03F2 *ERR: ILLEGALLCN/03F4 ***ERR: INPUTTIMEDUT/042E** *ERR:NBPCTODBIG/03ED

*ERR: NODEFAULTPROGRAM/03F0 **#ERR:NOFREEFCBS/03F9**

***ERR: NOSUCHLUN/0426 *ERR: NOTENDUGHRDDM/040D *ERR:OLDFILEEXISTS/0429**

*ERR: PRDGRAMKILLED/0411 **#ERR:SDDSCKSUM/041A** *ERR:SECTORSIZE2/0413 *ERR:SYSCALLTDOSHDRT/041D

*ERR:WARNINGCOMPILE/0065 ***ERR: ZERDSTARTADDRESS/0427**

*FCB:DIRLSN/0002 #FCB:HLCN/000C #FCB:HLSN/0007 FCB:SIZE/001A #FCB:VERSION/0019

FDCDNTROL/855D FDCYL/0049 FDFIRSTSEC/004C -

FDK2MODNSPT/0056 FDMAP/0058 FDMAPALG/0053 FDRESTORE/9DE3 FDRETRY/0047

FDSETUPDRIVE/85AF FDWAITDONE/858F FDWA1T2/859F

GOTOUTPUT: \$FFC0/8F24 *IC:DESTROY/0001 ILGETDEV: \$FFC0/8D1C

ILGETDEVSTATUSFRDMACIA/8EA2

ILPUTDEV: \$FFC8/8D45 INBUF: \$FFC8/956A

*INICV/FC03 -*INIDV/FC12

INTDISABLE/8EC4 INTERRUPTSTACKSIZE/0046 #IOC8:BYTECOUNT/0016

#IOCB:CURLSN/0002 #IOCB:EOFFLAG/0008

\$10CB:NEXTBYTE/0014 IDDRIVERBODY/0000 IOPKDEFS/0001 *JUPITERII/0001

LINEBUF: #FFC4/951A LINEBUFSIZE: \$FFC8/0064

*ERR: DEVICEERRDRED/0421 *ERR:DISKMDUNTED/03FC *ERR: DIRECTORYDAMAGED/040F ***ERR: DISKWRITELDCKED/0419**

ERR: DISKWRITE/0416 *ERR: ENDDFMEDIUM/042F ***ERR:FILEINCREATE/03FB** *ERR: HCSICTOOSMALL/0401

*ERR: ILLEGALSYSCALL/0409 ***ERR:IDINPROGRESS/0771** *ERR: NEWFILEEXISTS/03F6 #ERR: NDD ISKMAP/03EE

*ERR:NDMATCHFCB/03EF ***ERR: NDSUCHPROGRAM/0428** *ERR: NDTENUFMEM/0069 ***ERR:PRINTERNOTREADY/042D**

*ERR:PWRFAILDISKF/0403 *ERR: SDOSMTALREADYRUNNING/04CE **#ERR:SELFTESTCKSUM/0430**

*ERR:SYSTEMCROAKED/0414 *ERR: WRBUFTDOSMALL/041F

ERRETX/8EE0 ERRORRTS/0D39 *FCB:DISKINFO/0000 *FCB:MONTH/0017 *FCB:NCLUSTERS/000F

*FCB: YEAR/0018 *FCBS/99D9 FDDISMOUNT/8564 FDHEADCHAIN/004D

*FDK32MDDNSPT/005A FDNEXTCHAIN/004F FDSECTOR/004A FDSEEKRETRY/0046

FDSIZE/0058 FDSTARTIO/857A FDSTATUS/8566 FDWRITE/8569

GDTOUTPUT: \$FFC4/8F51 #IC:RELEASE/0004 *IC:LOCK/0003 ILGETDEV: \$FFC4/8D35

ILLDEVICEOP/8EDB *IMI7710S/0001 IMI5007/0000 INBUFSIZE: \$FFC0/0050

INPUTTOBLK: \$FFCO/96D0 *INTENABLE/8EC7 INTERRUPTSTACK/9D9D

*INTERRUPTTARGET/BE15 *INTRTI/8ECA #IOCB: COLCNT/000C #IDCB:DCB/0000 #IDCB:DRDSI/0012

#IOCB:RBN/QOID #IOCB:RDCN/OOIB

*LINEFLAGS/00FO *LIST.VIRTUALFLOPPY/0001

IODRIVERINIT/0001 JWDCCMDFEED/8CA3

K/0400 LINEBUF: \$FFC8/95BA

IOCB:SIZE/0022 IDCBPOINTERS/9D8D IODRIVERPOLL/0000 LINEBUFSIZE: \$FFC0/0064

LCN:SIZE/0002

LINEBUF: \$FFCO/9466 LINEBUFSIZE: \$FFC4/0000

*LISTCLOCK/0001 LISTDEFS/0000

ERR: DEVICENOTREADY/0424 ERR: DISKREAD/0415 ERR: DSKWRTPROT/0418 ***ERR:FATALCOMPILE/0064** *ERR:FILENOTFDUND/03F3

ERR: ILLDEVICEDP/040A ***ERR: ILLLSN/040E** *ERR:MUSTBEDISK/0422 *ERR: NODEBUGGER/03EB #ERR: NOERRORMSGS/03FE

#ERR: NDNE/0000 #ERR: NOSUCHDEVICE/0420 *ERR:NDTENOUGHPODL/0402 ***ERR: NOTDPENTOCONSOLE/0423** *ERR:PROFILENOTMALLEABLE/0778

*ERR: NDSUCHKEY/0433

*ERR:RENAMEDEVICE/040B #ERR:SDOSNOTREGISTERED/0436 **≭ERR:STATUSHASCHANGED/04CF #ERR:TIMENOTSET/0425** *ERR: WRONGFILESYSTEM/03FA *FCB:DIRDISP/0005

*FCB:FLAGS/000A *FCB:HCSIC/000E #FCB:PROT/0015 #FCB:REFCOUNT/000B

> FDCOMPLEMENT/004B FDDSTATE/0044 FDDSTATEJ/0043 FDK1MDDNSPT/0055

FDX8MDDNSPT/0058

FDREADWRITE/0042 FDSETUP2/860D FDSETUP4/8681 FDWAIT1/8598 FDT IMEOUT BLOCK / 9069

> #SETCV/FC09 IBMFORMAT/0001 #IC:CREATE/0000 *IC:TEST/0005 *ISNORED/0000

ILGETDEVICESTATUSFROMACIAERROR/BEA ILPUTDEV: \$FFC4/8D2C

INBUF: \$FFC4/951A INBUFSIZE: \$FFC8/0050 INPUTTOBLK: \$FFC8/994B

INTERRUPTSTACKEND/9DE3 INTSETUP/9D9D *10CB:BUFFERP/0005

*IDCB: CURLCN/0018 #IOCB:DRSN/001A #IOC8:HRSN/0021 #IOCB:LOCATEDF/0011

> 10085/9070 IODRIVERRAM/0000

MAL/6800 1.3F: 9E78 SDOSDRIVERS 01/14/83 11:39:33; Page 116; Form 1 *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***

Symbols Sorted by Name

IDJUPITER. ASM

*LISTSTORAGEDEMON/0001 MAP2/8697 MAP1/8692 MODULONSPTB/85A1 NEXTTCB/0000 NEXTDPB/8DFB NOINT: \$FFC0/8F45 NOTDCDDROP: \$FFC4/8F65 NOTINPUT: \$FFC8/8F99 NTIMEOUTBLOCKS/0009 OUTBUF: \$FFC8/951A

*DUTPUTTOBLK: \$FFC0/96C8

PERSCI:READSECTOR.1/88CC

PERSCI: VERIFYSECTOR/88AC

PERSCI:PIACB/FFA1

PERSCI: SEEK/8897

*PROFILE.ADM3/0001

*PROFILECHAIN/8DFB

*PROT::WRITE/0040

*REG:A/0003

*RDSI: DISKINFO/0000

RDSI:SECTORBASE/0005

PERSCI: WDTRACK/FFA5

*PROFILE.MALLPT/0001

PROFILENUM. MALLPT/0009

PERSCI/0002

NEXTTIMEOUT/96C8 NOINT: \$FFC4/8F72 NOTDCDDROP: \$FFC8/8F92 NOTOUTPUT: \$FFC0/8F2C PERSCI:ABORT/887B

LSN:SIZE/0003

MAP3/869C

MONTH/8FF8

PERSCI: ABORT. RTS/8890 PERSCI:SETSEEK/8895

PERSCI: WDCMDSTS/FFA4 PERSCI: WRITESECTOR/88CF *PROFILE.EPSONLPT/0001 *PROFILE.MALVT/0001 PROFILENUM. ADM3/0003 PROFILENUM.MALVT/0001

*PUTDV/FC15 *PUTCV/FC06 *RDSI:FLINK/0007

*RDSISTATE: VERIFYING/0003 *RDSISTATE:READING/0001 *REG: B/0002 *REG: CC/0001

RESET: \$FFC0/9E69 *SC:ALLSTATUS/0033 *SC:GETCOL/0001 *SC:GETDATACOUNT/0036

#SC:GETFILEPROT/0011 #SC: BETLINEFLAGS/002C

*SC:GETTIMESHARE/0032 SCBLK: END/000E #SCBLK: OPCODE/0000

SCBLK: RPLEN/0008 SDOS/BE00 SDLP/0000

SDOS: CHECKWRLEN/0039 *SDOS: CURRENTASK/001E SDOS: ERRORSAVE/0030 SDOS: IOINT/0012

*SDOS: MONTH/OOOF *SDDS:STACKSWITCHED/0011 SDOS: VTATTNCHECK/FFD3 SDOS: VTEDITTASK/FFCA

SDOS: VTINPUTTO/FFD6 SDOS: VTOUTPUT INT/FFDF #SDOS:WAITCOND/0027 *SECTORDB: ADDRESS/0005 SEEK/86E5 SEEK3/8710

SPECIALFN: CLEAR/0082 SPECIALOUTPUT: ADM3/8DCF SPECIALOUTPUT: H19CLEAR/8E7A STACK: \$FFC4/9899

STORAGEDEMON/0001 SYSIIRQ/OOFD

SYSPG/00FE TCBSTACK: \$FFC4/9892

M6800/0001 M6801/0000 MAP5/86A6 MAP4/86A1

NDISKDCBS/0008

NTIMEOUTS/0009 OKRTS/0039

DUTBUFSIZE: \$FFC0/0050 OUTPUTTOBLK: \$FFC4/9804

PERSCI:PIADA/FFA2 PERSCI:READSECTOR. 2/88C1

#RDSI:SIZE/0013 #RDSI:STATE/000C

*REG: PC/0006

RTI: \$FFC0/8F37 RTI: \$FFC4/8F64 *SC:ATTENTIONCK/0030

*SC: GETFILESIZE/0003 *SC:GETLINEFLAGSHINT/0034

SC: GETTYPE/0004

#SCBLK:PARAMS/0002

#SCBLK: WLEN/0001 *SDDS:BLOCKMOVE/0042

SDOS:CLOCK/000B #SDOS:DAY/000E #SDOS:ENTRYSIZE/0045 SDOS: EXTENSIONSIZE/0048

#SDOS:KILLPROOF/0020 SDOS: RESCHEDULE/0018 SDOS:STARTIO/0024 SDOS: VTCLEARIN/FF88 SDOS: VTILGETBUF/FFC7 #SDOS: VTINTDCB/FFFE SDOS: VTOUTPUTTO/FFD9 SDOS: WAITEVENT/002A

*SECTORDB: DISKINFO/0000 SEEKDONE/86FE SEEK3.1/8718 SPECIALFN: EEOL/0083

SPECIALOUTPUT: ADM3CLEAR/8DF5 SPECIALOUTPUT: H19EEOL/8E84 STACK: \$FFC8/99D8 STORAGEDEMONVIA/FF40

TCBSTACK: \$FFC8/99D1

#SYSCALL\$/OOFB SYSTEMDEFS/0000 #TCB:PARAM/0006 TCB:SCRATCHPAD/0008 *TEMP/0000

M6809/0000 NDRIVES/0008

MEMSIZE/003C NEXTDEVICEDC8/8FEB NIOCHANNELS/0008

NOTINPUT: \$FFC0/8F3F NOTOUTPUT: \$FFC4/8F59 OUTASPACE/0001 OUTBUF: \$FFC0/93C6

OUTBUFSIZE: \$FFC4/0050 OUTPUTTOBLK: \$FFC8/9943

NOINT: \$FFC8/8F9F

PERSCI: ISSUECOMMAND/8875 PERSCI:PIADB/FFA3

PERSCI:RESET/8891 PERSCI:STATUS/8864 PERSCI: WDDATA/FFA7 PERSCI: WRITESECTOR. 1/88E8

*PROFILE.GT100/0001 *PROFILE.RS232LPT/0001 PROFILENUM. H19/0005

PROFILENUM.RS232LPT/000B #RDSI:BLINK/0009 RDSI:LSN/0002 #RDSI:MODIFIED/000B

#RDSI:TRACK/000F

*RDSISTATE:WRITING/0002 RESET: \$FFCO/9E4B *REG: X/0004

SC:DEVICESPECIFICOP/0010 *SC:GETEOF/0002 *SC:GETERRORSTATS/0011

*SC:GETFREECOUNT/0035 #SC:GETPARAMS/0005 #SC:STATUSCK/0031

SCBLK: RDBUF/000A SCBLK: WRBUF/0004 SDOS: CHECKROLEN/0036

SDOS: CLOCKTICKED/001B SDOS:ERROR/002D

SDOS: IOBLOCKPTR/0007 *SDOS:KILLUSERPROGRAM/0021 SDOS:RTI/0015 #SDDS:SERIALNUMBER/0005

***SDOS: TABLEBRANCH/003F** SDOS: VTCLEAROUT/FFBB SDOS: VTILPUTBUF/FFC4 SDOS: VTMALLPT/FFCD SDOS: VTTLGETBUF/FFC1 #SDOS:YEAR/0010 SDOSMT/0000

*SECTORDB:LSN/0002 : SEEKDONEJ/87AO SEEKHOME/8720 *SPECIALFN: NEWLINE/0080 SPECIALOUTPUT: ADM3POSN/8DD9 SPECIALOUTPUT: H19POSN/8E5E STACKSWITCHEDDEVICEPOLL/8FA2

TCB:\$FFC0/9724 TASKQUEUE/9724 TCB:SIZE/0010

SYSCALLIO/8400

\$TEMPA/0000

NMAGICFCBS/0002 NOTDCDDROP: \$FFC0/8F38 NOTINPUT: \$FFC4/8F6C

MAKEDISKREADY/876A

MINSTACK/0015

NOTOUTPUT: \$FFC8/8F86 OUTBUF: \$FFC4/94CA OUTBUFSIZE: \$FFC8/0050

MODULONSPT/85A8

NEXTDISKDCB/9377

*PATCHSPACE/8EE6 .PERSCI:PIACA/FFA0

PERSCI:READSECTOR/88B3 PERSCI:RESTORE/886C PERSCI:TIMEOUT/8976 PERSCI: WDSECTOR/FFA6 PERSCIINTERRUPTNASK/8FC3

*PROFILE.H19/0001 *PROFILE.SOROCIQ120/0001 PROFILENUM. HARDCOPYVT/0006

*PROT::BACKUP/0001 RDSI: CYLINDER/0011

RDSI:SECTOR/000D #RDSISTATE: IDLE/000

*REALTIMECLOCK/0001 RESET: \$FFC4/9E5A

> #SC:GETACTCOL/0011 #SC:GETFILEDATE/0010 #SC:GETLASTBADLSN/0010

#SC:GETPOS/0000 #SC:GETPROFILE/0010 *SCBLK: DATA/000E

#SCBLK:RDLEN/000C *SCBLK: WRLEN/0006 *SDDS:CHECKSCLEN/003C

*SDOS: CONFIGURATION/0003 SDDS:ERRORED/0033

*SDOS: IOCBPOINTER/0009 *SDOS:LASTERROR/0001

#SDOS: VERSIONNUMBER/0000 SDOS: VTO I SPATCH/FFE2 SDOS: VTINPUTINT/FFDC SDOS: VTMALVT/FFDO SDOS:VTTLPUTBUF/FFBE #SDOSVERSION/0011 *SECTORDB:SIZE/0007

SEEKHOMEJ/878E SPECIALFN: PDSN/0081 SPECIAL DUTPUT: H19/8E50 STACK: \$FFCO/975D

STACKUNSWITCHEDDEVICEPOLL/8F18

SYSDEPENDENT/OOFO

TCB:\$FFC4/9860 TCB:\$FFC8/999F #TCB:STACK/0002 TCBSTACK: #FFC0/975

TEMPX/0000 *TEMPB/0001

MAL/6800 1.3F: 9E78 SDOSDRIVERS 01/14/83 11:39:33; Page 117; Form 1 *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***

Symbols Sorted by Name

TIME: SECONDS/9008 THE PARTY PARTY IN I ANAL

THISDPB/8DFB

AT174100 201011	3
IOJUPITER.ASM	
*TESTCV/FCOC	TESTFORSEEK/88
TIMES: MINUTES/90	105
*TIMEDUT:LINK/000	
TLCHECKREADY: \$FF	CO/BD25
TTYDCB/9627	TTYTCB/9724
VIAACR/FF4B	VIADDRA/FF43
VIAPCR/FF4C	VIATICH/FF45
*VT:INTERRUPTPOLI	LCHAIN/8F18
WDC1DCB/932E	WDC1STR/9372
WDCCONTINUEPC/9	
WDCDRIVE/0043	WDCDR1VER/89C
WDCFORMATX/89DB	
WDCINDATA1/8C15	
WDCINTUNEXPECTE	D/8C44
WDCOUTDATA/8BEO	
WDCPOLL1/8F83	WDCPOLLNEXT/8

WDCWRITEWAIT/8B24

WMDAMFLOPPY/0000

XLATE1:ADM3.B/8DCC

XLATEI:H19.ESCAPE/8E20

WDCWRITE7/8BOA WDCWRITECMD/0003

		BAHTTAIT	/ A A A A	
TIMEDUT:LINK/000		*TIMEOUT: ROUTINE		Ţ
TLCHECKREADY: \$FF	C0/8D25	TLCHECKREADY: \$F		
TTYDCB/9627	TTYTCB/9724	TTYTIMEOUTS/96C		U!
VIAACR/FF4B	VIADDRA/FF43	VIADDRB/FF42	1 mil mil mil mil mil mil mil mil mil mil	۷
	VIATICH/FF45	#VIATILH/FF47	VIATILL/FF44	٧
IVT: INTERRUPTPOLI	LCHAIN/BF18		WAITFORINTERRUP	
WDC1DCB/932E		WDCCMDFEED/8A5C		M
WDCCONTINUEPC/9		WDCCONTROL/89D0		W
WDCDRIVE/0043		WDCFATAL/0080	WDCFATALO/8C8E	Ą
WDCFORMATX/89DB		WDCFORMSERV/883		l
WDCINDATA1/8C15		WDCINIT/9E2C	WDCINTERFACE/93	25
WDCINTUNEXPECTE		WDCNBPS/0200	WDCNCYL/0001	į
WDCOUTDATA/8BEO		WDCOUTDATA1/8BF	6	¥
WDCPOLL1/8FB3	WDCPOLLNEXT/8F	BF	WDCPROCST/8C84	Ì
WDCQUIT/8CD6	WDCQUITREAD/80		WDCQUITWITHERR	/81
WDCREAD2/8B7D		WDCREAD4/8895	WDCREAD5/8BA1	1
WDCREADD/8BCB	WDCREADLOOP/88		WDCREADSERV/8B	4F
WDCREADWAITLOOK		WDCREADWAITRTS	/88DF	
WDCRETRY/0005			WDCSAVEREADSTA	TU
		WDCSET4TRANS/8		
WDCSAVEWRITEST		WDCT1MEDOUT/8C		
WDCSTART10/8A5		WDCWAIT1/8A2B		:30
WDCTIMEOUTCOUN		WDCWAITAVAILAB		
WDCWAITAVAILAB				-
WDCWRITE/89E5		-	WDCWRITED/8B14	
WARRITE7/RAGA	WDCWRITECMD/O	003	MACMUTICALGATE	:

WDCWRITEWAIT1ST/8A9D

XLATEI:ADM3.DONE/8DCD

XLATEI:H19.OK/8E1E

WMFORMAT/0001 WMPERSCI/0000

	SAZP.	TIME&/GAA9	TIME\$:HOURS/9002 02 08
TICKSPERSECOND/)03L	TIMEDIT. CHEE/AA	77
*TIMEOUT: DCB/000	6		מי
TIMEDUT: SIZE/00	08	*TTYBUFFERS/93C6	,u
TLCHECKREADY: \$F	FC8/8D5/	TI NAROLLEKOV 1900	10001
USECONSOLEACI AA	SCLOCK/0000	USEDEMONASCLOCK	17 VI TO IEE IN
VIADRAF/FF4F	VIADRB/FF40	VIALER/FF4E	ATHILKILLAN
VIATILLA/FF46	VIRTUALFLOPPY/0	001	ungants (STNS
PT/8828		WDCODCB/9377	親DCVSIK/Y3DB
WDCCMDFEED0/8A6	11	*WDCCMDFEED1/8A8	
WDCCOUNT/932A	WDCDCBPOINTER/S	1326	WDCDONE/8844
WDCFATAL2/8C94	WDCFATALERR/809	2	WDCFORMAT/0001
WDCFORMSERVJ/86	156.	WDCINDATA/8C07	WDCINDATAO/8C08
325	WDCINTERRUPT/80	269	
WDCNSPT/4F34	WDCNTPC/0001	MDCOKK 15/8HZV	WDCOPSET/89EB
WDCQUTDATAL/8BE		WDCPOINTER/9328	
WDCPROCSTOKRTS	/BCBD	WDCQU1ET1/8831	WDCQUIETERR/8B2F
/8CE8	WDCRFAD/89E9	WDCREADO/8B65	WDCREAD1/8B71
AUTOCANTIONAL	WDCRFAD7/8889	WDCREADCMD/000	Σ
4F	WNPPEANSERVI/A	A59	WDCREADWAIT/8BD3
Al TERRITARIA	685	Whoreget/8A36	WDCRESETLP/8A44
THE 1000S	MTPACAUCDEATICTA	TUST /RCDS	WDCSAVESTATUS/8CA6
TUS/BCCD	BECONTENENDO III	WDCSFTIP/8A02	#WDCS1ZE/0044
WULDEINEINITA / O	17F1	WDCSETUP/8A02 WDCTIMEOUTBLOC	K/93C0
#DC!!UEDUG!!\0	WDCWAIT4INT2/E	P5A	WDCWAIT4INT3/BC57
C3C		WDCWAITRTS/8C1	4
WDCWAITDONE/8A	IZZ . unrunttes/BAE/	Whrwelles/RAF?	WDCWRITE6/8AFE
E MDCMKTIF3\840t	 MN/MKTIC4\D4C:	*uncuptrecedu/o	205
A WDCWRITELOOP/E	JAAA	#WDCWRITESERV/8	100 /9874 100 /9874
WDCWRITEWAITE	X11/8834	WULWRIICHRIILU	12V
WMSERIES2000/	0000	WDCWRITEWAITLE XLATEI:ADM3/8D XLATEI:H19.B/8	.ov 3E1N
XLATEI:H19/8E	11	YEAR TOETO	3C 1 n
*XLATEI:H1932/	BE4C	YEAR/8FF9	
		4	
•			

MAL/6800 1.3F: 9E78 SDOSDRIVERS ... 01/14/B3 11:39:33; Page 118; Form 1

*** SDOS I/D drivers for WaveMate Jupiter II (C) 197B SOFTWARE DYNAMICS ***

Symbols Sorted by Value

IDJUPITER.ASM

Symbols Sorted by Value:

RILTERPROPTIES T. ELEMANO 1.00 1.0		:DAMFLOPPY/0000	:DATA/0000 :FIRST/0000	:IBMFORMAT/0000	:PERSCI/0000
EMBRYED STREET FORD STRINGEN FORD STRINGEN			*ASCII:NULL/0000	BLACKHOLE/0000 #CC:POSITIDN/0	000 CCB:BUSY/0000
NOTIFY::FILE:/1009				DCB: DONEFLAG/0000	*DPB:PROFILE/0000
INDITION INDITION		· ·		DVDAT:NBPS/0000	*DVDAT:WIDTH/0000
11-00-001-00-001-00-001-00-001-00-00-00-				*ERR:NONE/0000 EXORCISDR/000	O #FCB:DISKINFO/0000
IDBNITUREPRILL/JOOD			IMI5007/0000 IMI7711/0000	INBUFSIZE: \$FFC4/0000	*IOCB:DCB/0000 IODRIVERBODY/0000
MAGNOP METITE / 1000				LINEBUFSIZE: \$FFC4/0000	LISTDEFS/0000 M6B01/0000
SIDE PROPOSO				*RDSISTATE: IDLE/0000	*SC:SETPOS/0000 *SCBLK:DPCODE/0000
				*SECTORDB:DISKINFO/0000	SYSTEMDEFS/0000
NAMERICAPEY/ORDO NMERSES: AD001 NMERSES: AD002 N			,	*TIMEOUT:LINK/0000	USECONSOLEACIAASCLOCK/0000
NECESTAMENT/0001 ALTERRROFILE:CPSEO/0001 BDEDIFICASS:ESC/0001 BDESELECT, SEDIT/O001 BDESELECT, BSEDIT/O001 BDESELECT, BSEDIT/O002 BDESELECT, BSEDIT/O003 BSEDIT/BSEDIT/O003 BSEDIT/BSEDIT/O003 BSEDIT/BSEDIT/O003 BSEDIT/BSEDIT/O003 BSEDIT/BSEDIT/O003 BSEDIT/BSEDIT/O004 BSEDIT/BSEDIT/O004 BSEDIT/BSEDIT/O004 BSEDIT/BSEDIT/O004 BSEDIT/BSEDIT/O005 BSEDIT/BSEDIT/BSEDIT/BSEDIT/O005 BSEDIT/				0000 :NEXTCHAIN/00	01 :TPC/0001
				1 *CC:DUMPBUFFERS/0001	*CCB:ADDR/0001 CLOCK/0001
				*DCBEXCEPT:SEDIT/0001	*DCBIILSPL:PAGE/0001
				*DPB:DVTYP/0001 *DPBFLAGS:MAL/	0001 *DVDAT:DEPTH/0001
ILISTICIDECK/0001					1 *IC:DESTRDY/0001
NEBOLIC NEBO				*JUPITERII/0001 *LIST.VIRTUALF	*LISTCLDCK/0001
PROFILE_RESUZ_FIT				1 *PROFILE.ADM3/0001	*PROFILE.EPSONLPT/0001
PROFILE.RSZ3LPT/0001				*PROFILE.MALLPT/0001	*PROFILE.MALVT/0001
REBISTATE: READINS/0001 REGILINECIDE/JO007 STORAGEDEMON/001 MCNTYL/0001 MCNTYL/0001 MCNTYL/0001 MCNTYL/0001 MCNTYL/0001 MCNTYL/0002 MCNTYL/0003 MCNT	,			PROFILENUM.MALVT/0001	
SDBS:LASTERDB7/001			*REALTIMECLOCK/0001	*REG:CC/0001 *SC:GETCOL/000	01 *SCBLK:WLEN/0001
			STORAGEDEMON/0001	*TEMPB/0001 USEDEMDNASCLE	CK/0001 VIRTUALFLOPPY/0001
		WAVEMATE/0001 WDCFORMAT/0001	WDENCYL/0001 WDENTPE/0001	WMFORMAT/0001 :DRIVENUMBER	/0002
IDEBREMINDERS:CIS/0002				READB/0002 #DCBIILSPL:FRE	
IDNRIVER: DISKRE AD/0002			*DCBWELFLAGS:RETYPE/0002	*DPB:NEXT/0002 *DPBFLAGS:OUT	PUT/0002 #DRIVER:CLOSE/0002
PERSET/0002 RDSI1LSN/0002 RDSISTATE:WRITINS/0002 TICB:STACK/0002 TICB:STACK/0003 TICB:STACK/0004 TICB:STACK/0005 TICB:STACK/0006 TICB:STACK/0006 TICB:STACK/0006 TICB:STACK/0006 TICB:STACK/0006 TICB:STACK/0006 TICB:STACK/0006 TICB:STACK/0007 TICB:STACK/0007 TICB:STACK/0007 TICB:STACK/0007 TICB:STACK/0007 TICB:STACK/0007 TICB:STACK/0007 TICB:STACK/0008 TICB:STACK/0009 TICB:STAC		*DRIVER: DISKREAD/0002	*DVDAT:NSPC/0002	*DVDAT:NSPT/0002	
SECTION STATE ST		*ENV: B/0002	<pre>2</pre>		
CDB:IMBRIC/0003 DDB:MAME/0003 \$DDTYP_DTAPE/0003 \$ENY:A/0003 \$1C:LOCK/0003 LSN:SIZE/0003 CDB:LINEW/0003 \$RB6:A/0003 \$1C:LOCK/0003 \$1C:LOCK/0004 \$1C:LOCK/0005 \$1C:LOCK/		PERSCI/0002 RDSI:LSN/0002	*RDSISTATE:WRITING/0002		
PROFILENUM_ADM3/0003		*SECTORDB:LSN/0002	*TCB:STACK/0002 TIMEDUT:FUSE	/0002 WDCREADCMD/00	- -
SDDS:CONFIGURATION/0003		CCB:TIMEOUT/0003	DCB:NAME/0003 *DVTYP.DTAPE/		
### ### ##############################		PRDFILENUM.ADM3/0003	*RDSISTATE: VERIFYING/0003		
DCBMELFLAGS:FLDM/0004		*SDOS:CONFIGURATION/0003	WDCWRITECMD/0003		
1DRIVER:READA/0004		*DCBEDITFLAGS:WRAP/0004			•
REG:X/0004 SC:SETTYPE/0004 SCBLK:WRBUF/0004 \$TCB:CDND/0004 \$TIMEDUT:RDUTINE/0004 \$ALTERPROFILE:CPIDLES/0005 ASCII:ENG/0005 CCB:CYL/0005 DCB:NEXTDCB/0005 \$DCB:NEXTDCB/0005 \$DCB:DEFDEPTH/0005 DVTYP.PRINTER/0005 \$FCB:DIRDISP/0005 \$1C:TEST/0005 \$10CB:BUFFERP/0005 PRDFILENUM.H19/000 PRDFILES/0005 \$SC:GETPARAMS/0005 \$SDOS:SERIALNUMBER/0005 \$SECTORDB:ADDRESS/0005 \$SC.GETPARAMS/0005 \$ALTERPROFILE:ROWDISP/0006 \$ASCII:ACK/0006 CCB:LASTCYL/0006 \$CCB:LASTCYL/0006 \$DCBNUMBER/0005 \$DCBNUMBER/0005 \$DCBNUMBER/0006 \$DCBPDINTER/0006 \$TCB:PARAM/0006 \$TCB:PARAM/0006 \$TCB:PARAM/0006 \$TCB:PARAM/0006 \$TCB:PARAM/0006 \$TCB:PARAM/0006 \$TCB:PARAM/0006 \$TCB:PARAM/0006 \$TCB:PARAM/0006 \$TCB:DSCBUFFERPODL/0007 \$TCB:DSCBUFFERPODL/0008 \$TCB:DSCBUFFERPODL/0009 \$TCB:DSCBUFFERPODL/0009 \$TCB:DSCBUFFERPODL/0009 \$TCB:DSCBUFFERPODL/0009 \$TCB:DSCBUFFERPODL/0009 \$TCB:DSCBUFFER		*DCBWELFLAGS:FLDW/0004			
*ALTERPROFILE:CPIDLES/0005 ASCII:END/0005 CCB:CYL/0005 DCB:NEXTDCB/0005 *DPB:DEFDEPTH/0005 DVTYP.PRINTER/0005 *FCB:DIRDISP/0005 *IC:TEST/0005 *IC:TEST/0005 *IC:TEST/0005 *IC:TEST/0005 PRDFILENUM.H19/000 *IC:TEST/0005 PRDFILENUM.H19/000 *IC:TEST/0005 PRDFILE:ROWDISP/0005 PRDFILENUM.H19/000 *IC:TEST/0005 PRDFILENUM.H19/000 *IC:TEST/0005 PRDFILENUM.H19/0005 PRDFILENUM.H19/0005 PRDFILENUM.H19/0005 PRDFILENUM.H19/0005 PRDFILENUM.H19/0005 PRDFILENUM.H19/0005 PRDFILENUM.H19/0005 PRDFILENUM.H19/0006 PRDFILENUM.H19/0007 PRDFILENUM.H19/0007 PRDFILENUM.H19/0007 PRDFILENUM.H19/0007 PRDFILENUM.H19/0008 PRDFILENUM.H19/0008 PRDFILENUM.H19/0008 PRDFILENUM.H19/0008 PRDFILENUM.H19/0008 PRDFILENUM.H19/0008 PRDFILENUM.H19/0008 PRDFILENUM.H19/0008 PRDFILENUM.H19/0009 PRDFILENU		*DRIVER:READA/0004		,	
DVTYP.PRINTER/0005		*REG:X/0004 SC:GETTYPE/000	•		
RDSI:SECTORBASE/0005 SC:GETPARAMS/0005 SD0S:SERIALNUMBER/0005 SECTORDB:ADDRESS/0005 MDCRETRY/0005 DCBNUMBER/0006 TALTERPROFILE:ROWDISP/0006 ASCII:ACK/0006 CCB:LASTCYL/0006 TALTERPROFILE:ROWDISP/0006 TALTERPROFILE:ROWDISP/0007 TALTERPROFILE:ROWDISP/0008 TALTERPROFILE:ROWDISP/0009					
WDCRETRY/0005 DCBNUMBER/0006		DVTYP.PRINTER/0005			
CNFG:NIOCHANNELS/0006					*
*DVDAT:NCYL/0006		WDCRETRY/0005 : DCBNUMBER/000			
#SCBLK:WRLEN/0006					
#BOOT:PARAMSIZE/0007 CCB:STARTIO/0007 #CNFG:DSKBUFFERPODL/0007 CDNTEXTBLDCK:SIZE/0007 #DCB:DRIVER/0007 #DPB:OUTTO/0007 #DVTYP.SERIALIN/0007 #FCB:HLSN/0007 #RDSI:FLINK/0007 *DOS:IOBLOCKPTR/0007 #SECTORDB:SIZE/0007 #ALTERPROFILE:CLLEN/0008 ASCII:BS/0008 #DCBEDITFLAGS:PAGE/0008 #DCBIILLFLGS:CTLG/0008 #DCBIILSPL:CONTINUE/0008 #DCBREMINDERS:CTLD/0008 #DCBWELFLAGS:FLDE/0008 #DPBFLAGS:AUTONL/0008 #DRIVER:DISKSTATUS/0008 #DRIVER:READB/0008 #DVTYP.PAROUT/0008 ENV:SIZE/0008 NDISKDCBS/0008 NDRIVES/0008 NIDCHANNELS/0008 SCBLK:RPLEN/0008 #CNFG:DSKPOOLSIZE/0009 #DCB:SIZE/0009 #ASCII:HT/0009 CCB:STATUS/0009 #DVTYP.PARIN/0009 #DCB:DRIVER/0009 NTIMEOUTBLOCKS/0009 NTIMEOUTS/0009 #DVTYP.PARIN/0009 #RDSI:BLINK/0009 #SDOS:IOCBPDINTER/0009 ASCII:LF/000A #DCB:REMINDERS/000A		*DVDAT:NCYL/0006			
*DCB:DRIVER/0007					
SDOS:10BLOCKPTR/0007					
*DCBITFLAGS:PAGE/0008					
*DCBWELFLAGS:FLDE/0008					
*DVTYP.PARDUT/0008 ENV:SIZE/0008 NDISKDCBS/0008 NDRIVES/0008 NIDCHANNELS/0008 SCBLK:RPLEN/0008 TCB:SCRATCHPAD/0008 TIMEDUT:SIZE/0008 *ALTERPROFILE:CLSEQ/0009 *ASCII:HT/0009 CCB:STATUS/0009 *CNFG:DSKPOOLSIZE/0009 *DCB:SIZE/0009 *DPB:XLATEI/0009 DSKINFO:NBPS/0009 *DVTYP.PARIN/0009 *IOCB:DRIVER/0009 NTIMEOUTBLOCKS/0009 NTIMEOUTS/0009 PROFILENUM.MALLPT/0009 *RDSI:BLINK/0009 *SDOS:IOCBPDINTER/0009 ASCII:LF/000A *DCB:REMINDERS/000A					
TCB:SCRATCHPAD/000B TIMEDUT:SIZE/0008				·	
*CNFG:DSKPOOLSIZE/0009					
*DVTYP.PARIN/0009					
PROFILENUM. MALLPT/0009 \$RDSI:BLINK/0009 \$SDDS:IOCBPDINTER/0009 ASCII:LF/000A *DCB:REMINDERS/000A					• • •
THUI TELEMENTHEET IT VVVI THE STEEL AND LARGE TO BE ADD A DROWN DROWN INCAMA					•
*DKIVEK:DISKUDNIKUL/000A *DKIVEK:MKITEB/000A *DVIYF.DUMMY/QQQA *TUKICHGG/000A SUBLK:KDBQF/000A					
		*DRIVER:DISKCONTROL/000A	*DKIVEK: WKIIEB/000A	#UVITE. DUMNI/UUUA	atroitrida/vvvn arbiv:unbot/vvvn

MAL/6000 1.3F: 9E78 SDDSORIVERS

*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***

Symbols Sorted by Value 01/14/B3 11:39:33; Page 119; Form 1

IDJUPITER. ASM

DVTYP.CLOCK/000B OSKINFO: NSPT/000B ASCII:VT/000B *CNFG:ATTNCHECK/000B *DCB:WELFLAGS/000B

*ROSI:MODIFIED/0008 *FCB: REFCOUNT/000B *IOCB:EOFFLAG/000B PROFILENUM.RS232LPT/000B

CCB:RESET/000C *DCB:ILSW/000C *OPB:TLPUTDEV/000C **#DRIVER: CREATE/000C** ASCII:FF/000C SDOS: CLOCK/000B

#SCBLK: RDLEN/000C #ROSI:STATE/000C *FCB:HLCN/000C *IOCB:COLCNT/000C

*DCB:COLCT/000D *DSKINFO:NTPC/000D #ASCII:CR/000D #CNFG:DEBUGGER/000D *ALTERPROFILE: CLIDLES/000D

*ALTERPROFILE: EEOLLEN/000E *ASCII:SO/OOOE *DCB:CTLCCOUNT/OOOE *IDCB:CURBYTE/0000 ROSI:SECTOR/0000

*FCB:HCSIC/000E *SCBLK: DATA/000E SCBLK: END/000E #SDDS: DAY/000E *DRIVER:RENAME/000E CCB:ABORT/OOOF #CNFG:DRIVERBASE/000F #OCB:LINEBUFPTR/000F #ASCII:SI/000F *ALTERPROFILE: EEDLSEQ/000F

*RDSI:TRACK/000F *FCB: NCLUSTERS/000F *DSKINFO: NEYL/000F *OPB:SETCOLORING/OOOF

#ASCII:OLE/0010 CC:DEVICESPECIFICOP/0010 *CC:ECHO/0010 *CC:SETFILEDATE/001 :SPT/0010 *SDOS:MONTH/000F

*OCBEDITFLAGS:ACTIVATE/0010 *DCBREMINDERS:RIP/0010 - *OCBIILLFL65:CTLV/0010 *CC:UNLOCKOISK/0010 *FILESYSTEMVERSION/0010 SC:DEVICESPECIFICOP/0010 *OPBFLAGS: HCEOIT/0010 #ORIVER: DELETE/0010

*SDOS: YEAR/0010 TCB: SIZE/0010 *SC:GETLASTBAOLSN/0010 *SC:GETPROFILE/0010 *SC: GETFILEDATE/0010

*CC:NDECHO/0011 *CC:SETFILEPROT/0011 #CNF6:INTSETUP/0011 #ASCII:DC1/0011 CC:DISMOUNTDISK/0011. *IOCB:LOCATEOF/0011 *FCB:FILESIZE/0011 #OCB: IILSPL/0011 OSKINFO:NSPC/0011 *SC: BETERRORSTATS/0011 *SC:GETFILEPROT/0011 *SC:GETACTCOL/0011 RDSI:CYLINDER/0011 *ASCII:DC2/0012 *CC:IDLES/0012 *CC:SETFILESIZE/0012 *SOOS:STACKSWITCHEO/0011 #SDOSVERSION/0011

CCB:RESTORE/0012 #OCB: IILLFLGS/0012 *DPB:SETBACKGROUND/0012 *CC:SETMAPALGORITHM/0012

SDDS: IDINT/0012 *IOCB:OROSI/0012 *DSKINFO:MINALLOC/0012 *DRIVER:CONTROL/0012

*CC:TABS/0013 #ASCII:0C3/0013 #CC:MULTISECTORREAD/0013 *CC:POSITIONTOEND/0013 *ALTERPROFILE: EEOLIDLES/0013 #ASCII: DC4/0014 #RDSI:SIZE/0013 #ALTERPROFILE:SIZE/0014 · . OCB:OILQUIESCENT/0013 *CNFG:INTDISABLE/0013

#OCB:SCB/0014 #DRIVER:STATUS/0014 *CC:MULTISECTORWRITE/0014 *CC:SETACTBLOCK/0014

CC:FORMAT/0015 *DSKINFO:MIDALLOC/0014 *IOCB:NEXTBYTE/0014 ASCII:NAK/0015 #CC:CLRINPUT/0015 DPB:GPINIT/0015 ENV: MINSTACK/0015 *FCB: PROT/0015 MINSTACK/0015 CCB:SETSEEK/0015

*CC:WAITODNE/0016 *CNFG: INTENABLE/0016 SDOS:RTI/0015 *ASCII:SYN/0016 *CC:CLROUTPUT/0016

#ASCII:ETB/0017 *FCB:DAY/0016 *IOCB:BYTECOUNT/0016 DSKINFO: MAPALGORITHM/0016 *ORIVER: RESET/0016 . CCB:SEEK/0018 *ORIVER:STARTIO/001

*FCB:MONTH/0017 *ASCII:CAN/001B *CC:SETPROFILE/0018 *CC:SETREAUTIMEOUT/0017

SOOS: RESCHEOULE/001B *ASCII: EM/0019 #OSKINFO:LOG2NBPS/0018

#CNFG:INTRTI/0019 *DSKINFD:NBPSM1/0019 *FCB: VERSION/0019 *CC:ALTERPROFILE/0019

FCB:SIZE/001A #IDCB:DRSN/001A ASCII:ESC/001B DRIVER: PFRESTART/001A *ASCII:SUB/001A *CC:WRITEEDITLINE/001A

*IOCB:RDCN/001B *DSKINFO: NLSN/001B CCB:REAUSECTOR/001B *CC:SETFIELOSIZE/001B

*CNFG: INTERRUPTSTACK/001C *ASCII:6S/001D SDOS:CLOCKTICKED/001B

DPB:SIZE/001D *IDCB:RBN/001D *ASCII:RS/001E *CC:WRAP/001E CCB:WRITESECTOR/001E *CC: ACTIVATIONCK/0010

*ASCII:US/001F *CC:NOWRAP/001F *SDOS: CURRENTASK/001E *CNF6:IOINTPOLL/001E *OSKINFO:NLCN/001E

*CNFG: TASKQUEUE/0020 *ASCII:SPACE/0020 *CC:COLORING/0020 *IDCB:HRDSI/001F *OCBREMINDERS: INTO/0020 *DCBIILLFLGS:CTLB/0020 *OCBIILSPL:INTO/0020 *OCBEDITFLAGS: INTO/0020 *SDOS:KILLPROOF/0020 *CC:BACKGROUND/0021 *OSKINFO:NBPC/0020

*OCBWELFLAGS: ECHO/0020 *CC:KILLPROOF/0022 CCB: VERIFYSECTOR/0021 *IOCB: HRSN/0021 *SDDS: KILLUSERPROGRAM/0021

IDCB:SIZE/0022 #CC:KILLENABLE/0023 CCB: TIMEOUTBLK/002 CNFG: TIMEOUTLIST/0022 *DSKINFO:RANDMAP/0022 #CNFG: VTOEBUG/0026 *CNF6:VTPROFILES/0024 *OSKINFO:MAPLSN/0024 S00S:STARTIO/0024

*OSKINFO:DIRFCB/0027 *SDOS:WAITCONO/0027 *CNFG:MTPRIMS/0028 #DCB:CALLERSCB/0026 SDOS: WAITEVENT/002A *CNFG:VTSIZE/00ZA *DSKINFO: MAPFCB/0029 DCB:PROFILE/0028 *DSKINFO: BADLSN/002D

*SC:GETLINEFLAGS/002C OSKINFO: SECTORDB/002B CCB: CURRENTOCB/002C **#SC:ATTENTIONCK/003** *CCB:SIZE/002E *CC:WRITEANOWAIT/0030 DSKINFO: SEEKERRCNT/0030 SDOS: ERROR/002D

*SC:STATUSCK/0031 *CC:SETEXCEPTION/0032 *CC:SETTIMESHARE/0031 SDDS: ERRORSAVE/0030 *CC:WRITEBNOWAIT/0033 *SC:GETTIMESHARE/0032 *SC:ALLSTATUS/0033 DSKINFO: SEEKERRSTS/0032

***SC:**GETFREECOUNT/0035 SOOS: ERRORED/0033 *SC:GETLINEFLAGSHINT/0034 OSKINFO: WRITEERRCNT/0034 DSKINFO: READERRENT/0038 *SC:GETDATACOUNT/0036 SOOS: CHECKRDLEN/0036 DSKINFO: WRITEERRSTS/0036

MEMSIZE/003C SDOS: CHECKWRLEN/0039 DSKINFO: READERRSTS/003A DSKINFO: OPSCOUNT/003C DCB: XLATESTATE/0030 DSKINFO: ERRLSN/003F TICKSPERSECONO/003C *SOOS:CHECKSCLEN/003C *PROT::WRITE/0040 *DCBEDITFLAGS: HCEDIT/0040 *DCBIILLFLGS:CTLT/0040

*SOOS: TABLEBRANCH/003F #SDOS: BLOCKMOVE/0042 WOCREADWRITE/0042 DSKINFO:SIZE/0042 FDREADWRITE/0042 #SDOS: ENTRYSIZE/0045 #OCB: RINGINFETCH/0045 FDDSTATE/0044 *WDCSIZE/0044 FODSTATEJ/0043 WOCORIVE/0043

FORETRY/0047 FDDRIVE/0048 *DCB:RINGINDATA/0047 FDSEEKRETRY/0046 INTERRUPTSTACKSIZE/0046

FDSECTOR/004A #DCB:RINGINRODM/004B #OCB:RINGINSTORE/0049 FOCYL/0049 SOOS: EXTENSIONSIZE/0048

*** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SDFTWARE DYNAMICS *** MAL/4800 1.3F: 9E78 SDOSDRIVERS 01/14/83 11:39:33; Page 120; Form 1 Symbols Sorted by Value IOJUPITER.ASM FDHEADCHAIN/004D DCB:RINGINBASE/004D :CYL/004D FDFIRSTSEC/004C FDCOMPLEMENT/004B INBUFSIZE: \$FFC8/0050 INBUFSIZE: *FFC0/0050 FDNEXTCHAIN/004F *DCB:RINGINLEN/004F *DCB:RINGOUTFETCH/0051 OUTBUFSIZE: \$FFCB/0050 OUTBUFSIZE: \$FFC4/0050 OUTBUFSIZE: \$FFC0/0050 *DCB:RINGOUTSTDRE/0055 FDK1MODNSPT/0055 FDMAPALG/0053 *DCB:RINGOUTDATA/0053 FDCCB/0051 FDK8MDDNSPT/0058 FDK4MDDNSPT/0057 FDK2MODNSPT/0056 *DCB:RINGOUTROOM/0057 *DCB:RINGOUTLEN/005B *FDK32MODNSPT/005A DCB:RINGDUTBASE/0059 FDK16MODNSPT/0059 DCB:RINGOUTTHRESHOLD/005D *DCB:LINEFLAGS/005F DCB: BEÉPCOUNT/005E FDMAP/005B FDSIZE/005B *ERR:FATALCOMPILE/0064 #DCB:TLRDOM/0064 *DCB:ILDATA/0062 *DCB:TLDATA/0060 *DCB:LINEBUFCOUNT/0066 *ERR: WARNINGCOMPILE/0045 LINEBUFSIZE: \$FFC0/0064 LINEBUFSIZE: \$FFC8/0064 *ERR: ABNORMALSTOP/0068 DCB:LINEBUF/0067 *ERR: CANTGOTD/0047 *ERR: BADCMDFORMAT/0066 *DCB:ENDCOL/006B *DCB: DISPLAYDEPTH/006A *DCB: DISPLAYWIDTH/0069 *ERR:NOTENUFMEM/0069 *DCB:WELPOS/0070 *DCB:READCDL/006F *DCB:RDW/006D *DCB:CDL/006E *DCB:CURSORLOST/006C *DCB:COLDRING/0076 *DCB:CTLCKILL/0075 *DCB:FIELDEND/0074 *DCB:RDWCT/0071 *DCB:READAERR/0072 *DCB:ACTCDL/007B DCB:LINEBUFLEN/007A *DCB: NEWSTATUS/0079 *DCB:BACKGRDUND/0078 *ASCII:RUBOUT/007F #ASCII: MASK/007F DCB:TLBUFFER/007D *DCB:ACTDISP/007C *DCBIILLFLGS: ESC/0080 *DCBILSW:HCFREEZE/0080 *DCBEDITFLAGS:KILLP/0080 *DCB:ILROOM/0080 *DCB:EXCEPT/0082 WDCFATAL/0080 SPECIALFN: POSN/0081 *SPECIALFN: NEWLINE/0080 *DCB:OPENCOUNT/0085 *DCB:PROCESSID/0083 SPECIALFN: EEDL/0083 SPECIALFN: CLEAR/0082 *DCB:PDSNSL/008B *DCB:READPERIOD/0089 *DCB:FIELDWIDTH/0088 *DCB:CALLERIOCB/0086 *DCB:COLDISP/0092 *DCB:CLEARSL/0093 *DCB:ROWDISP/0091 *DCB:POSN/OOBC *DCB:PDSNIDLES/0090 *DCB:EEOL/009A *DCB:EEOLIDLES/009E *DCB:CLEAR/0094 *DCB:CLEARIDLES/0098 *DCB:EEDLSL/0099 DCB: INPUTTOBLK/00A9 DCB: OUTPUTTOBLK/00A1 *DCB: IDLECDUNT/00A0 *DCB: IDLETRIGGER/009F *DCB: ILPUTDEV/00BB DCB:RESET/00B5 *DCB:TLCLDSEDEV/00B8 DCB:TASKSTACK/00B3 DCB: TCB/0081 *DCB: ISDEVICEREADY/00C7 *DCB:STATUS/OOC4 *DCB:CDNTROL/OOC1 *DCB: ILGETDEV/00BE *DCB:TLGETBUF/00D3 *DCB:TLPUTBUF/00D0 *DCB: CLEAROUT/OOCD DCB: CLEARIN/OOCA *DCB:TABS/OODC *DCB:ACTIVATION/OOED *BASICFLAGS/00F0 **#DCB: ILGETBUF/00D9** *DCB: ILPUTBUF/00D6 SYSIIRQ/OOFD SYSPG/00FE DCB: VTSIZE/OOFD #LINEFLAGS/00FO SYSDEPENDENT/00FO #SYSCALL\$/OOFB *ERR:FILEISOPEN/03EA WDCNBPS/0200 *ERR: BOOTCKSUMFAIL/03E8 *ERR:EOFHIT/03E9 :BPS/0100 *ERR:NDDISKMAP/03EE *ERR:NBPCTOOBIG/03ED *ERR:BADPOSITIDN/03EC *ERR:NDDEBUGGER/03EB *ERR:FILEWRTPROT/03F2 *ERR:FILENOTFDUND/03F3 *ERR: NODEFAULTPROGRAM/03F0 *ERR: NOMATCHFCB/03EF *ERR:NDDISKSPACE/03F7 *ERR: NEWFILEEXISTS/03F6 #ERR:BADFNAMESIZE/03F5 terr: ILLEGALLCN/03F4 **#ERR:FILEINCREATE/03FB** *ERR: WRONGFILESYSTEM/03FA *ERR:NOFREEFCBS/03F9 ***ERR:LCNWASNTALLDCATED/03F8** *ERR: BADFILENAME/03FF *FRR:NOERRORMSGS/03FE *ERR: CANTOPENMUSTCREATE/03FD *ERR:DISKMOUNTED/03FC *ERR: NOTENOUGHPOOL/0402 *ERR: HCSICTDOSMALL/0401 *ERR:ILLFILESIZE/0400 *ERR:CHTOOBIG/0406 *ERR:NOTALOADFILE/0404 *ERR: BADFILEVERSIDN/0405 *ERR:PWRFAILDISKF/0403 ERR: ILLDEVICEOP/040A **#ERR: ILLEGALSYSCALL/0409** #ERR:CLOSED/0408 #ERR: CHBUSY/0407 *ERR: ILLLSN/040E #ERR: NOTENOUGHRODM/040D *ERR: BADLOADRECORD/040C *ERR: RENAMEDEVICE/040B ERR: DEVICETIMEDOUT/0412 *ERR:PRDGRAMKILLED/0411 #ERR: IBUFDVERFLOW/0410 *ERR: DIRECTORYDAMAGED/040F ERR: DISKWRITE/0416 ERR: DISKREAD/0415 *ERR: SYSTEMCROAKED/0414 *ERR:SECTORSIZE2/0413 terr:SDOSCKSUM/041A *ERR: DISKWRITELOCKED/0419 ERR: DSKWRTPROT/0418 ERR: DISKSEEK/0417 *ERR: RDBUFTOOSMALL/041E *ERR:CLUSTERSIZELIMITSFILE/041C *ERR:SYSCALLTOOSHORT/041D *ERR:NLSNGE224/041B #ERR: MUSTBEDISK/0422 *ERR: DEVICEERRORED/0421 *ERR:NOSUCHDEVICE/0420 *ERR: WRBUFTDOSMALL/041F #ERR: NDSUCHLUN/0426 *ERR: TIMENOTSET/0425 ERR: DEVICENDTREADY/0424 *ERR:NOTOPENTOCDNSOLE/0423 *ERR: ALLOCOCLUSTERS/042B *ERR: NOSUCHPROGRAM/0428 *ERR:OLDFILEEXISTS/0429 **≱ERR: ZEROSTARTADDRESS/0427** #ERR: ENDOFMEDIUM/042F **#ERR: INPUTTIMEOUT/042E** #ERR:FILEALREADYDELETED/042C #ERR:PRINTERNOTREADY/042D *ERR:NOSUCHKEY/0433 #ERR:SERIALNOWRONG/0432 *ERR: NOTIMEDUTBLKS/0431 #ERR: SELFTESTCKSUM/0430 *ERR: DECRYPTIONKEYSDONTMATCH/0437 *ERR: SDOSNOTREGISTERED/0436 #ERR: BRANCHFACTORSIZE/0435 *ERR: DUPLICATEKEY/0434 *ERR: WRONGDISKTYPE/07&E #ERR:SDDSMTPRIMSMISSING/04D0 **#ERR:SDOSMTALREADYRUNNING/04CE** *ERR:STATUSHASCHANGED/04CF \$ERR:BUSYFORANOTHERPROCESS/0772 \$ERR:ACTIVATIONNOTINBUFFER/0773 \$ERR:ACTIVATIONRECEIVED/0775 *ERR: IOINPROGRESS/0771 DESIREDPOOLSIZE/0800 **#ERR:PROFILENOTMALLEABLE/0778** *ERR:PROFILENOTFOUND/0777 *ERR:TIMEDINPUTEXPIRED/0776 CODE/8400 ERRORRTS/OD39 EDITDATE/1231 WDCNSPT/4E34 EDITYEAR/1982 OKRTS/OC39 DSKPOOLSIZE/081D

SYSCALLIO/8400 DEBUGSYSCALLHANDLER/8407

CLOCKPFRESTART/842F

CLOCKWB2/845F

CLOCKGETTD/84B9

CLOCKREADB/8469

CLOCKOPEN/842F

CLOCKWB1/8451

CLOCKRA1/84A6

DRIVERBASE/8400

CLOCKCLOSE/842F

CLOCKWRITEB/8448

CLOCKREADA/848D

CLOCKDRIVER/8415

CLOCKSTATUS/8434

CLOCKGETTD2/84CD

CLOCKRB2/8484

DEBUGINTERRUPT/8410

CLOCKRB1/8475

CLOCKSPRUNG/8431

CLOCKGETTD1/B4C0

*** SDDS I/D drivers for WaveMate Jupiter II (C) 1978 SDFTWARE DYNAMICS *** MAL/6800 1.3F: 9E78 SDOSDRIVERS

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IOJUPITER.ASM

#DATE/84D5 CLOCKDATE/84D7 BCDTOASC/84FE CLOCKTIME/850A CLOCKMAKEXX/8522 DIVIDEBY60/852E FDDRIVER/8551 FDCDNTROL/855D FDDISMOUNT/8564 DIVIDEAOL/8531 DIVIDEAOL2/853A DIVIDE60L3/8549

FDSTATUS/8566 FDWRITE/8569 FDREAD/856D FDREAD.1/856E FDSTARTIO/857A FDWAITDONE/858F FDWAIT1/8598 FDSETUPDRIVE/85AF FDSETUP1/85CB FDWAIT2/859F MDDULDNSPTB/85A1 MODULDNSPT/85A8

BUILDMAP4/85E9 FDSETUP2/860D MAP1/8692 MAP2/8697 *8UILDMAP/85CF 8UILDMAP1/85D4 8UILDMAP2/85D8 BUILDMAP3/85DD MAP3/869C MAP4/86A1 MAP5/86A6 · FDSETUP4/8681 DISKINTERRUPT/8685 DISKINTSETUP/8689

DISKINTSTARTPERSCI/86C2 SEEKDDNE/86FE DISKINTSTARTDAMFLDPPY/86C7 DISKINTSTART/86CA SEEK/86E5 DISKWPERR/8738 DISKERRDR/8741 DISKERRDR1/874D SEEK3/8710 SEEK3.1/8718 SEEKHOME/8720 DISKSEEKERRDR/8735

DISKDONE1/8758 DISKINTUNEXPECTED/875E CHECKDISKREADY/8762 MAKEDISKREADY/876A DISKDONE/8751 DISKWRITE2/8791 DISKABORT/876F DISKSETCYLADD/8774 DISKSETCYLADD. 1/8776 DISKWRITE/8780

. SEEKHOMEJ/878E SEEKDONEJ/87AO DISKWRITE3/87A3 DISKWRITE4/87A7 DISKWRITE5/87B1

DISKREAD1/87E1 DISKDONEJ1/87E5 DISKERRORJ/87C1 DISKSAVEERRLSN/87C4 DISKREAD/87D4

DISKDDNEJ/87EC DISKREAD4/87EF DISKCOMPL/8804 COUNTCOMMAND/881B DISKCOMPLEMENT/87F8

WAITFDRINTERRUPT/8828 TESTFORSEEK/8831 CDPYDC8TOCC8/8845 DDSEEK/885D PERSCI: STATUS/8864

PERSCI: ABDRT. RTS/8890 PERSCI: ISSUECDMMAND/8875 PERSCI:ABDRT/887B PERSCI:RESTORE/886C PERSCI:SEEK/8897 PERSCI: VERIFYSECTOR/88AC PERSCI:RESET/8891 PERSCI:SETSEEK/8895 PERSCI: WRITESECTOR/88CF PERSCI:READSECTOR.1/88CC PERSCI:READSECTDR/88B3 PERSCI:READSECTDR.2/88C1

PERSCI:WRITESECTOR.1/80E8 DAMFLOPPY: STATUS/88EB DAMFLDPPY:RESTORE/88F2 DAMFLOPPY: ISSUECDMMAND/88F9 DAMFLOPPY: A8DRT/88FF DAMFLOPPY: ABORT. RTS/8913 DAMFLOPPY: RESET/8914 DAMFLDPPY: SETSEEK/8918

DAMFLOPPY: READSECTOR/8938 DAMFLDPPY: READSECTDR. 2/8945 DAMFLOPPY: SEEK/8918 DAMFLDPPY: VERIFYSECTOR/892E DAMFLOPPY: WRITESECTOR. 1/8973 DAMFLOPPY:WRITESECTDR.2/8965 DAMFLOPPY:READSECTDR.1/894F DAMFLDPPY: WRITESECTOR/8952

DISKTIMEOUTERRORED/8994 PERSCI:TIMEOUT/8976 DAMFLOPPY: TIMEDUT/8978 DISKTIMEDUT/897E DISKTIMEDUT1A/8986 WDCDRIVER/89C4 WDCCONTROL/89DO DISKTIMEOUT2/89C1

DISKTIMEDUT1/89A9 WDCFDRMATX/89D8 WDCWRITE/89E5 WDCREAD/89E9 WDCDPSET/89EB WDCSETRETRY1/89F1 WDCSETUP/8A02 WDCWAIT1/8A28 WDCRESET/8A36 WDCRESETLP/8A44 WDCFDRMSERVJ/8A56 WDCOKRTS/8A20 WDCWAITDONE/8A22

WDCCMDFEEDO/8A6A WDCREADSERVJ/8A59 WDCCMDFEED/8A5C WDCSTARTIO/8A5C

WDCWRITELODP/8AAA #WDCCMDFEE01/8A80 ***WDCWRITESERV/8A95** WDCWRITEWAIT1ST/8A9D

WDCWRITEO/8AB6 WDCWRITE1/8AC2 WDCWRITE2/8ACE WDCWRITE3/8ADA WDCWRITE4/8AE6 WDCWRITE5/8AF2 WDCWRITE6/8AFE WDCWRITE7/8B0A WDCQUIET1/8831 WDCWRITED/881A WDCWRITEWAIT/8824 WOCWRITEWAITLOOP/8826 WDCQUIETERR/882F WDCDONE/8B44 WDCREADSERV/8B4F WDCREADLOOP/8858 WDCWRITEWAITEXIT/8839 WDCFDRMSERV/8838 WDCREAD2/8B7D WOCREAD3/8889 WDCREAD4/8B95 WDCREADS/8BA1 WDCREAD&/88AD WDCREAD7/88B9 WDCREAD1/8971

WDCREADO/8865 WDCOUTDATA/8BEO WDCREADWAIT/BBD3 WDCREADWAITRTS/8BDF WDCREADWAITLODP/88D4 WDCREADD/08CB WDCINDATA/8CO7 WDCINDATAO/8CO8 WDCINDATA1/8C15 WDCOUTOATAL/8DE9 WDCDUTDATÁ1/88F&

WDCWAITAVAILABLELDOP/8C21 WDCWAITRTS/8C1D WDCWAITAVAILABLE/8C1E WDCWAIT4INT/8C3C WDCWAIT4INT2/8C54 WDCWAIT4INT3/8C57 WDCINTUNEXPECTED/8C66 WDCINTERRUPT/8C69

WDCFATAL2/8C94 JWDCCMDFEED/8CA3 WDCPRDCST/8C84 WDCPROCSTDKRTS/8C8D WDCFATALO/8C8E WDCFATALERR/8C92

WDCSAVEREADSTATUS/8CCD WDCSAVEREADSTATUS1/8CD5 WDCSAVESTATUS/8CA6 WDCSAVEWRITESTATUS1/8CCC

WDCTIMEDOUT1/8CF2 WDCQUITREAD/8CE4 WDCQUITWITHERR/8CE8 WDCTIMEDOUT/8CF2 WDCQUIT/8CD6 1LPUTDEV: \$FFCO/8D13 WDCSET4TRANS/8D01 *RTS: *FFCO/8D1B ILGETDEV: *FFCO/8D1C

#RTS:#FFC4/8D34 ILGETDEV:#FFC4/8D35 TLCHECKREADY: \$FFCO/8D25 ILPUTDEV: \$FFC4/8D2C TLCHECKREADY: \$FFC4/8D3E ILPUTDEV: \$FFC8/8D45 *RTS: *FFC8/8D4D ILGETDEV: *FFC8/8D4E TLCHECKREADY: \$FFC8/8D57 XLATEI:ADM3/8DCO XLATEI:ADM3.B/8DCC

XLATEI: ADM3.DONE/8DCD SPECIALOUTPUT: ADM3CLEAR/8DF5 NEXTDPB/8DFB * *PROFILECHAIN/8DF8 SPECIALOUTPUT: ADM3/8DCF SPECIALDUTPUT: ADM3PDSN/8DD9

THISDPB/8DFB XLATEI: H19/8E11 XLATEI: H19. B/8E1D XLATEI:H19.OK/8E1E

XLATEI:H19.ESCAPE/8E20 *XLATEI: H1932/8E4C SPECIALOUTPUT: H19/8E50 SPECIALDUTPUT: H19POSN/8E5E SPECIALOUTPUT: H19CLEAR/8E7A SPECIALDUTPUT: H19EEDL/8E84 COLORING: H19/8E8E COLORING: H19REVERSEVIDEO/8E9A CNF6TABLE/8E81 INTDISABLE/8EC4 ILGETDEVSTATUSFROMACIA/BEA2 ILGETDEVICESTATUSFROMACIAERROR/8EA8

ERRETX/8EE0 *PATCHSPACE/8EE6

*INTENABLE/8EC7 *INTRTI/8ECA ILLDEVICEOP/8ED8

STACKUNSWITCHEDDEVICEPOLL/8F18 #VT:INTERRUPTPDLLCHAIN/8F18 GOTDUTPUT: \$FFC0/8F24 NDTDUTPUT: \$FFC0/8F2C

RTI: \$FFCO/8F37 NDTDCDDROP: \$FFCO/8F38 NOTINPUT: \$FFC0/8F3F NOINT: \$FFC0/8F45 RTI: \$FFC4/8F64 NOTDCDDROP: \$FFC4/8F65 NDTINPUT: \$FFC4/8F6 GOTOUTPUT: \$FFC4/8F51 NDTDUTPUT: \$FFC4/8F59

NOTDUTPUT: \$FFC8/8F86 RTI: \$FFC8/8F91 NOINT: \$FFC4/8F72 6DTOUTPUT: \$FFC8/8F7E

NDINT: \$FFC8/8F9F STACKSWITCHEDDEVICEPOLL/8FA2 NOTDCDDROP: \$FFC8/8F92 NOTINPUT: \$FFC8/8F99 WDCPDLLNEXT/8FBF PERSCIINTERRUPTMASK/8FC3 WDCPOLL1/8F83 *DISKINTSERVICE/8FBF

DISKINTPERSCI.NO/8FCF DAMFLOPPYINTERRUPTMASK/8FD3 DISKINTDAMFLDPPY.NO/8FDF BADINTERRUPTCDUNT/8FE9 MAL/6800 1.3F: 9E78 SDOSDRIVERS 01/14/83 11:39:33; Page 122; Form 1 *** SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SOFTWARE DYNAMICS ***

Symbols Sorted by Value

DAMFLOPPY: WDSECTDR/FF86

PERSCI:PIAOA/FFA2

PERSCI: WOSECTOR/FFA6

SDDS:VTTLPUTBUF/FFBE

SDOS: VTEDITTASK/FFCA

SDOS: VTINPUTTO/FFD&

SDOS: VTD ISPATCH/FFE2

IDJUPITER. ASM

	CLUCKUCB/8FEB	*DEVICEDCBS/8FEB	•	NEXTDEVICEDC8/8	FEB		4	
	DAY/8FF7	MDNTH/8FF8	YEAR/8FF9	*CLDCKFRACTION/8	FFA	CLOCKSTR/8FFB	TIME\$/9002	TIME: HDURS/9002
	TIME: MINUTES/9	005	TIME \$: SECONOS/9	800	DATE\$/900B	DATES: MONTH/900	B .:	DATE:DAY/900E
	DATES: YEAR/9011	l		5	DISKINTCCB/9015		:CDNTROLLER/901	7
	CCB:PERSCI/9017	1	CCB:DAMFLDPPY/9	045	FDTIMEOUTBLDCK/	9069	:HEADCHAIN/9155	
	:DC8/9286	::/9321		325 .	WDCDCBPOINTER/9	326	WDCCONTINUEPC/9	328
	WDCCOUNT/932A	WDCPOINTER/932B		WOCRETRYCHT/932	D	WDC1DCB/932E	WOC1STR/9372	DISKDCBS/9377
	NEXTDISKDCB/937	17	WDCODCB/9377	WDCOSTR/93BB	WDCTIMEOUTBLOCK	79300	WOCTIMEDUTCOUNT	/9302
	DUTBUF: \$FFC0/93	IC4	\$TTYBUFFERS/93C6		INBUF: \$FFC0/941		LINEBUF: \$FFC0/9	466
	DUTBUF: \$FFC4/94	ICA	INBUF: \$FFC4/951	l A	LINEBUF: \$FFC4/9	51A	DUTBUF: \$FFC8/95	1A .
	INBUF: \$FFC8/956	A	LINEBUF: \$FFC8/9	SBA	DCBNAME: \$FFCO/9	61E	OCB: \$FFC0/9627	TTYDC8/9627
	NEXTTIMEOUT/960	:B [*]	*OUTPUTTDBLK: \$FF	FC0/96C8	TIMEDUTQUEUE/98	C8	TTYTIMEOUTS/960	В .
	INPUTTOBLK: \$FFC	:0/96D0	TASKQUEUE/9724	TCB: \$FFC0/9724	TTYTCB/9724	TCBSTACK: \$FFCO/	9756	STACK: \$FFC0/975D
	DCBNAME: \$FFC4/9	775E	OCB: \$FFC4/9763	OUTPUTTOBLK: \$FF	C4/9804	INPUTTOBLK: \$FFC	4/980C	TCB: \$FFC4/9860
	TCBSTACK: \$FFC4/	9892	STACK: \$FFC4/989	9	DCBNAME: \$FFC8/9	89A	DCB:\$FFC8/98A2	
	OUTPUTTD8LK: \$FF	CB/9943	INPUTTOBLK: \$FFC	:8/994B	TCB: \$FFC8/999F	TCBSTACK: \$FFC8/	99D1	STACK: \$FFC8/99D8
į	FCBS/99D9	IDCBS/9C7D	IOCBPDINTERS/90	18D	INTERRUPTSTACK/	909D	INTSETUP/909D	DSKBUFFERPODL/9DE3
	FDRESTORE/9DE3	INTERRUPTSTACKE	ND/9DE3	WDCINIT/9E2C	CLDCKRESET/9E35		RESET: \$FFC0/9E4	В
	RESET: #FFC4/9E5	iA	RESET: \$FFC8/9E6	9	VTDRIVER/A600	S00S/8E00	INTERRUPTTARGET.	/BE15
1	INICV/FC03	*PUTCV/FC06	#GETCV/FC09	*TESTCV/FCOC	*INIOV/FC12	*PUTOV/FC15	STORAGEDEMONVIA	/FF40
	VIADRB/FF40	VIADRA/FF41	VIAOORB/FF42	VIADORA/FF43	VIATILL/FF44	VIATICH/FFA5	VIATILLA/FF46	VIATILH/FF47
	VIAACR/FF4B	VIAPCR/FF4C	VIAIFR/FF4D	VIAIER/FF4E	VIADRAF/FF4F	OAMFLOPPY:PIACA	/FF80	
	DAMFLOPPY: PIACE)/FF81	DAMFLDPPY: PIADA	/FF82	DAMFLDPPY:PIAOB	/FF83	DAMFLDPPY:WDCHD	STS/FF84

DAMFLOPPY: WDDATA/FF87

PERSCI:PIADB/FFA3

PERSC1: WDDATA/FFA7

SDOS: VTMALLPT/FFCD

*SDDS: VTINTDCB/FFFE

SDDS:VTTLGETBUF/FFC1

SODS:VTOUTPUTTD/FF09

PERSCI:PIACA/FFA0

PERSCI: WDCMDSTS/FFA4

SDOS: VTCLEARIN/FFB8

SDDS: VTILPUTBUF/FFC4

SDOS: VTINPUTINT/FFDC

SOOS: VTMALVT/FFDO

1170 Symbols.

DAMFLOPPY: WDTRACK/FF85

PERSC1:PIACB/FFA1

PERSCI: WDTRACK/FFA5

SOOS: VTCLEAROUT/FFBB

SDOS:VTILGETBUF/FFC7

SOOS: VTATTNCHECK/FFD3

SDOS: VTOUTPUTINT/FFDF

MAL/6800 1.3F: 9E78 SDOSDRIVERS 01/14/83 11:39:33; Page 123; Form 1 IOJUPITER.ASM ******* SDOS I/O drivers for WaveMate Jupiter II (C) 1978 SDFTWARE DYNAMICS *** Symbols Sorted by Value

******* No Errors.